(To face title.

WEEKLY WEATHER REPORT, MAP SHOWING DISTRICTS AND DISTRICT STATIONS, DECEMBER 1912.

Scale 1: 5,000,000.

The names of Stations not used in the calculation of Meteorological values for Districts for the elements rainfall and temperature are shewn in italic type. The positions of sunshine stations are not shewn if the values are not incorporated in the District values.

Ordnance Survey, Southampton, 1913.

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M.O. 209a.

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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1912

(VOL. XXIX.—NEW SERIES)

METEOROLOGICAL OFFICE
27 JUN 1913
LIBRARY

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK,

WITH THREE APPENDICES AND FRONTISPIECE MAP

AND FORMING

PART I. OF THE BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK.

Published by the Authority of the Meteorological Committee.

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II.—Weekly and Progressive Values for each *District* for 1911 of the different elements, namely :—

Rain-Days,

Rainfall,

Accumulated Temperature above 42° F.,

Accumulated Temperature below 42° F.,

Bright Sunshine—Duration,

Bright Sunshine—Percentage.

III.—Summary of gales and wind recorded at Anemograph Stations during 1912

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Issued as a Supplement to the Weekly Weather Report and forming Part II. of the British Meteorological and Magnetic Year Book.

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PREFACE.

Several important changes were made in the form of publication of the Weekly Weather Report from January 1912.

The order of the Tables was changed. The Weekly Seasonal and Annual Summaries for *Districts* were transferred to the fourth page, and the values for stations were given with the notes referring to them, on the second and third pages.

The temperatures on the grass and in the ground, which had previously been given in a separate table, were included with the other data in the principal table of results. Averages of the temperature in the ground for each week were computed from the results already published during the five years 1907–1911, and columns giving the difference of the weekly values from the averages were also included.

The observations of sea temperatures continued to be published in a separate table, but averages for the five years 1907–1911 were computed and the differences of the weekly values from the averages are now included in the table.

The values for the duration of bright sunshine which had previously been expressed as the total duration for the week are now given as the mean daily duration during the week.

The form of the synoptic charts included in the Weekly Weather Report was entirely modified. In place of three maps for each day, showing respectively the distribution of pressure and wind over Europe at 7 a.m. and 6 p.m., and the distribution of temperature and weather at 7 a.m., a single map has been given for each day. It embraces a much larger area than that included hitherto. It includes the whole of Europe, the North Atlantic Ocean north of latitude 28° N., and a portion of the North American Continent as far west as the great lakes. The maps show the distribution of pressure, wind, weather and temperature at the hour of morning observation. They are on the scale $1 : 4 \times 10^7$. The information for Europe is derived from the telegraphic reports received at the Office and from the Bulletin International issued by the Bureau Central Météorologique of Paris. The information for the Atlantic Ocean is derived from reports received by wireless telegraphy, supplemented by reports received by post. The extension of the area included in the chart affords an opportunity of rendering available the information received by wireless telegraphy. By delaying the issue of the maps for one week it is possible to include for the portion of the American Continent shown on the map the information published in the Daily Weather Reports of the Canadian Meteorological Service.

The general arrangement of the weekly issues of the Report is as follows :—

I. General Remarks and characterisation of the warmth, rainfall, and sunshine of each district.
II. Weekly Summary of temperature ; including temperature on the grass and in the ground, rainfall and sunshine, arranged under *Stations*.
III. Temperature of the Sea.
IV. Weekly, Seasonal, and Annual Summaries, arranged under *Districts*.
V. Daily Charts.

The information given under each of these heads may be summarised as follows :—

I. *General Remarks* on the weather for the week followed by a tabular statement describing the warmth, rainfall and sunshine experienced in each district in accordance with the following definitions :—

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of the year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The meteorological character of the current season and of the last four completed seasons is summarised in a table giving for each season the number of occasions on which the warmth rainfall and sunshine fell within each of the three main divisions.

(29563—24.) Wt. 173—814. 450. 6/13. D & S.

II. *Weekly Summary* for *Stations.*—This appears on the second and third pages in each weekly issue and contains the data used in the preparation of the Summaries on the first page, the values being set out for each Station. The information given is in nearly the same form as that presented for each District in IV., but cumulative values for the season and the year are not given for stations. Values not used for the calculation of summaries for districts are printed in italic type.

The table also contains a summary of the observations of temperature on the grass and in the ground. The summary includes the number of occasions during the week on which the temperature on the grass fell to 30° or below this limit, and the minimum temperature; the mean temperature in the ground at depths of 1 foot and 4 feet. This information was first added in the 18th week of 1906. It was given in a separate table prior to January 1912.

III. The mean temperature of the surface of the sea, and the highest and lowest readings at a selection of stations on the coast of the British Islands. This table has been included since the commencement of 1907. A column showing the differences from the average of the mean values for the week has been included since the beginning of 1912.

IV. *Weekly Summary* for *Districts.*—The Tabular Summary on the fourth page of each Report gives for the week and for each District :—

Temperature.—The highest and lowest observed, with the dates of their occurrence, the mean maximum the mean minimum, the mean temperature, and its difference from the average for the corresponding period. The values for "accumulated temperature" above 42° F. and below 42° F. for the week and for the periods from the beginning of the season and of the year, and the differences from the average values for the corresponding periods. The averages* are derived from observations extending over the 25 years 1881–1905.

Rainfall.—The total fall and the number of rain-days for the week, and for the part of the season and year to date, together with the differences from average* for the corresponding periods based on observations from 1881–1905.

Bright Sunshine.—The number of hours of sunshine recorded, and the percentage ratio of that time to the whole time during which the sun was above the horizon: also the progressive values reckoned from the commencement of the season and of the year, together with the differences between these values and the averages* for the corresponding periods in the 25 years 1881 to 1905.

V. *Daily Charts.*—One for each day, showing the distribution of pressure, wind, temperature and weather over the whole of Europe and the North Atlantic at 7 a.m. The maps are accompanied by a brief account of the weather conditions for the day, and the changes that have taken place since the previous day.

Observations in the Upper Air.—The publication of these in the Weekly Weather Report was discontinued from January 1912. They are now included in the Geophysical Journal, Part III., Section 2, of the Year Book.

Stations and Districts.

The stations used in the preparation of the Report are shown in the Frontispiece Map. Particulars of their altitudes &c. will be found in the introduction to the Monthly Weather Report.

Some additions and alterations in the list of contributing stations may be noted.

Summaries from West Witton, a station near to Aysgarth in the North Riding of Yorkshire, have been included in Table II. but are not used for District Values.

The Station at Fulbeck was moved to a new site at the end of April 1912, since when the observations have been made for W. V. R. Fane, Esq.

The observations at Manchester (Prestwich) were discontinued during the year, and since June 1912 the values for Manchester (Whitworth Park) have been used for the computation of district values of temperature and rainfall for District 7.

Weekly Summaries for Hampstead and Camden Square have been included with those for Westminster and Greenwich, under LONDON.

Values of earth temperature and sunshine at Norwich are contributed by Mr. J. H. Willis of Southwell Lodge. The remaining values are supplied, as in the past, by Mr. A. Preston.

The boundaries of the 12 districts into which the British Islands are divided are shown on the map. Their subdivisions are also shown.

Daily Mean Temperature.

The daily Mean Temperature shown in the Tables in the *Weekly* Reports is calculated from the mean between the daily maxima and minima, due regard being paid to the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and at the First Order Observatories of the Meteorological Office.

---

* For particulars of the method of computing average values for districts, *see* Preface to the Weekly Weather Report for 1907.

The approximate Mean Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima :—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example :

The mean maximum temperature for a week in December being - - 48°·1

The mean minimum - - - - - - - - - - - - - - 39°·3

The difference is- - - - - - - - - - - - - - 8°·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43°·9, the required mean temperature of the week.

Accumulated Temperature.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. For *Districts*, cumulative values for the whole period since the commencement of the season and the year are published in addition to the values for each week. The base temperature adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature of the day gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

Rules for computing, for a Weekly Period, from the observed Maxima and Minima, the Accumulated Temperature above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the coefficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in cases 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0·4; for 52° F., 0·33; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

Daily Charts.

The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇛ = a heavy gale (forces 10—12, Beaufort Scale); ⇾ = a gale (forces 8 and 9); → = a moderate breeze to high wind (Forces 4 to 7); ⟶ = a light air to gentle breeze (Forces 1—3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✱ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy; at 5.25 a.m. in Greece; at 9 a.m. in Portugal; and at 8 a.m. in the Azores and in Spain. These times refer to Greenwich Mean Time. In Austria and Russia the observations are taken at 7 a.m. local time, corresponding approximately with 6 a.m. and 5 a.m. Greenwich Mean Time respectively.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

APPENDICES.

Appendix I. has been issued for each quarter of the year in a form slightly different to that adopted in the corresponding Appendix of previous years. It shows for each quarter and for the whole year (1) the number of rain-days, (2) the total rainfall and its percentage of the average, (3) the mean temperature and its difference from the average, (4) the duration of bright sunshine and its percentage of the average for each of the six lustra in the period 1881 to 1910 and for the year 1911, 1912. The averages are computed in each case for the 30 years 1881–1910. In years previous to 1911 the values (1), (2), (3), (4) were given for each individual year of the period since 1878.

Appendix II., the resumé of weekly values for districts, has been published in the same form as in previous years.

Appendix III. issued annually gives a summary of the gales experienced at anemograph stations in connexion with the Office. The Appendix was issued first in 1907 in continuation of the wind force supplement to the Annual Summary for 1905, 1906, and of the gale table in the Appendices to the Annual Report of the Meteorological Council for the years 1902, 3, 4. The table has been modified from time to time and in the issue for 1912 several changes have been made.

(*a*) The values of velocity are given in metres per second, the corresponding values in miles per hour being added in certain of the tables.

(*b*) Three new tables have been added, giving the maximum velocities in a gust, and for an hour for different stations for each month of the year, and the highest velocities recorded in gusts of storm force during each of the years 1906–1912.

The number of stations for which the tabulations have been summarized according to the several numbers of the Beaufort Scale has been reduced to ten.

The British Meteorological and Magnetic Year Book.

For the convenience of libraries and others the various serial statistical publications of the Meteorological Office have been grouped together under the general title "British Meteorological and Magnetic Year Book."

The other parts are as follows:—

Part II.—Monthly Weather Report. Issued monthly on the 27th of each month, with an annual summary, as a supplement to the Weekly Weather Report. Price 6*d.* each issue.

Part III.—Section 1. Daily readings at stations of the First and Second Orders. Issued in Monthly Parts within about five weeks of the close of each month. Price 1*s.* each part.

Section 2 The Geophysical Journal of the Observatories of the Meteorological Office. Issued in Monthly Parts. Price 4*d.* each part.

Part IV.—Section 1. Hourly Values from Autographic Records—Meteorological Section. Obtained from Self-recording instruments at three Observatories. Issued in monthly parts for each Observatory. Price 6*d.* each part.

Section 2. Hourly Values from Autographic Records—Geophysical Section. Published with an Introduction and Summary at the end of each year.

Meteorological Office.
London, S.W.
30th May, 1913.

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1912.

NOTE.—Corrections are not included in this list unless the values previously published are altered by at least 2° in the case of Extreme Temperature, 0°·5 in the case of Mean Temperature. and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.
All corrections are incorporated in the results issued in the Monthly Summary.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	TEMPERATURE ON GRASS. No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	Difference from Average.	4 feet. Mean for week.	Difference from Average.	RAINFALL. No. of Rain-days.	Rainfall in the Week.	Difference from the Average.	BRIGHT SUNSHINE. Daily Mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.
Seasonal classification. No 34, p. 133 ..	Summer, 1912 ..	Rainfall District 10, Ireland S. 7″3; District 11, English Channel, 7″2.																						
District Values, Corrections.		°		°		°	°	°	°	Day-deg.	Day-deg.		°	°	°	°	°		Ins.	Ins.	Hrs.	Hrs.	%	%
No. 1, p. 4 ..	2. England, N.E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·73	+0·31	—	—	—	—
No. 4, p. 16 ..	7. England, N.W. ..	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	0·22	−0·16	—	—	—	—
No. 5, p. 20 ..	3. England, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·56	+0·01	—	—	—	—
No. 7, p. 28 ..	7. England, N.W. ..	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·65	+0·23	—	—	—	—
No. 11, p. 44 ..	2. England, N.E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·19	−0·15	—	—	—	—
No. 14, p. 56 .	3. England, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 18, p. 72 ..	1. Scotland, E. ..	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·47	−0·01	—	—	—	—
No. 22, p. 88 ..	8. England, S.W. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·9	−3·8	11	−22
No. 23, p. 92 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·9	−3·1	17	−18
No. 25, p. 100 ..	1. Scotland, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·6	−1·5	26	− 8
No. 26, p. 104 ..	1. Scotland, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·69	+0·23	—	—	—	—
No. 27, p. 108 ..	2. England, N.E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·2	−2·1	26	−13
No. 29, p. 116 ..	2 England, N.E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·65	+0·06	—	—	—	—
No. 29, p. 116 ..	3. England, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 34, p. 136 ..	10. Ireland S...	—	—	—	—	—	—	54·1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 35, p. 140 ..	7. England, N.W. ..	67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·3	−3·0	18	−23
No. 37, p. 148 ..	3. England, E. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·45	−0·56	—	—	—	—
No. 42, p. 168 ..	8. England, S.W. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·79	−0·40	—	—	—	—
No. 43, p. 172 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 44, p. 176 ..	4. Midland Counties	—	—	—	—	51·9	—	46·0	+0·6	35	—	—	—	—	—	—	—	—	0·37	−0·51	—	—	—	—
No. 47, p. 188 ..	8. England, S.W. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·86	+1·45	—	—	—	—
No. 48, p. 192 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·53	−0·01	—	—	—	—
No. 49, p. 196 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·17	+1·75	—	—	—	—
No. 50, p. 200 ..	0. Scotland, N. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·59	−0·15	—	—	—	—
No. 51, p. 204 ..	11. English Channel	—	—	—	—	50·7	45·5	48·2	+1·2	43	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Station Values, Additions.																								
No. 1, p. 2 ..	Hereford	52	1, 3, 4	30	31, 1	49·0	36·4	43·0	+4·5	31	16	1	25	—	—	—	—	5	0·50	0·00	—	—	—	—
No. 2, p. 6 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	43·5	+3·0	46·6	+1·3	—	—	—	—	—	—	—
No. 2, p. 6 ..	Bettws-y-Coed ..	52	13th	30	8th	47·4	36·9	42·4	+1·4	24	14	1	30	41·9	+2·1	46·3	+2·5	6	1·30	—	0·1	—	1	—
No. 5, p. 18 ..	Norwich	37	29, 31	18	3rd	34·6	24·5	29·8	−7·5	0	85	7	9	—	—	—	—	6	0·44	—	—	—	—	—
No. 5, p. 19 ..	Newcastle (Pendower).	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·3	—	39	—
No. 7, p. 26 ..	Deerness	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·2	−0·7	14	− 8
No. 7, p. 26 ..	Geldeston	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	0·16	−0·19	—	—	—	—
No. 7, p. 26 ..	Hereford	53	16th	36	15th	47·1	39·8	43·5	+4·3	20	6	1	29	—	—	—	—	3	0·38	−0·12	—	—	—	—
No. 7, p. 26 ..	Bettws-y-Coed ..	59	13th	30	11, 15	51·9	37·9	44·9	+4·4	38	11	2	30	39·9	+0·8	41·9	−0·2	6	1·13	—	0·8	—	8	—
No. 7, p. 27 ..	Salcombe	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·7	—	27	—
No. 9, p. 35 ..	Newcastle (Pendower).	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·5	—	24	—
No. 11, p. 42 ..	York	58	14th	34	12, 16	51·3	38·7	44·8	+4·0	33	9	—	—	42·6	+3·4	43·0	+2·4	4	1·22	+0·86	2·2	−0·9	19	− 8
No. 12, p. 46 ..	Marlborough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·1	−1·5	18	−12
No. 14, p. 54 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	47·6	+2·0	47·4	+1·8	—	—	—	—	—	—	—
No. 16, p. 62 ..	Norwich	69	20th	30	16th	60·0	37·3	48·1	+2·9	62	13	2	25	—	—	—	—	0	0·00	—	—	—	—	—
No. 17, p. 66 ..	Norwich	70	21st	37	21st	60·6	41·1	50·4	+3·9	63	3	0	32	—	—	—	—	0	0·00	—	—	—	—	—
No. 17, p. 67 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9·4	—	66	—
No. 19, p. 74 ..	West Linton	—	—	—	—	—	—	—	—	—	—	1	28	—	—	—	—	—	—	—	—	—	—	—
No. 20, p. 78 ..	Margate	68	15th	44	17th	62·0	49·4	55·3	+3·9	93	0	—	—	54·1	+1·1	51·6	+2·0	3	0·29	−0·05	7·1	+0·7	46	+ 5
No. 21, p. 82 ..	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·9	—	24	—
No. 23, p. 91 ..	Cahir	67	5th	34	4th	62·4	49·6	54·0	−0·9	84	0	—	—	—	—	—	—	6	1·04	—	—	—	—	—
No. 24, p. 94 ..	Portsmouth	—	—	—	—	—	—	—	—	—	—	0	44	60·4	−0·8	57·0	0·0	—	—	—	7·0	—	43	—
No. 26, p. 102 ..	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	0·95	+0·47	—	—	—	—
No. 27, p. 106 ..	Southampton ..	—	—	—	—	—	—	—	—	—	—	0	46	—	—	—	—	—	—	—	—	—	—	—
No. 28, p. 110 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·2	−1·6	25	−10
No. 28, p. 110 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	62·7	−0·1	59·3	+0·4	—	—	—	—	—	—	—
No. 29, p. 114 ..	Scarborough	63	17th	51	19th	62·2	52·9	57·2	−1·5	106	0	—	—	—	—	57·9	—	3	0·50	−0·05	2·0	—	12	—
No. 29, p. 114 ..	Norwich	86	14th	51	19, 20	73·9	56·4	64·5	+4·2	158	0	0	45	—	—	—	—	3	1·30	—	—	—	—	—
No. 29, p. 114 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	67·9	+4·4	61·0	+1·1	—	—	—	—	—	—	—
No. 29, p. 114 ..	Hoylake	—	—	—	—	—	—	—	—	—	—	0	47	—	—	—	—	—	—	—	7·0	—	43	—
No. 30, p. 118 ..	Hoylake	—	—	—	—	—	—	—	—	—	—	0	51	—	—	—	—	—	—	—	1·8	—	11	—
No. 31, p. 122 ..	Hoylake	—	—	—	—	—	—	—	—	—	—	0	36	—	—	—	—	—	—	—	4·1	—	26	—
No. 32, p. 126 ..	Canterbury	—	—	—	—	—	—	—	—	—	—	0	43	?	?	61·4	+0·5	—	—	—	—	—	—	—
No. 33, p. 130 ..	Strathpeffer	65	16th	45	13th	60·1	48·8	54·1	−1·1	85	0	—	—	—	—	—	—	6	0·52	−0·06	1·5	−2·4	10	−16
No. 35, p. 138 ..	Blackpool	63	29th	43	28th	59·9	51·3	55·3	−2·2	93	0	0	31	55·1	—	55·7	—	4	1·06	+0·26	3·6	−1·3	26	− 9
No. 35, p. 138 ..	Bettws-y-Coed ..	67	25th	42	28th	61·6	49·0	54·9	−3·0	90	0	0	37	55·3	−0·6	55·0	−0·2	4	0·93	—	2·2	—	16	—
No. 37, p. 146 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	57·3	—	59·4	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Bettws-y-Coed ..	64	18th	37	21st	50·3	43·1	50·8	−4·2	62	0	0	38	52·7	−0·4	53·1	−0·7	0	0·00	—	5·3	—	43	—
No. 41. p. 163 ..	Rhyl	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6·4	—	59	—
No. 42, p. 167 ..	Arlington	58	13th	33	15th	55·7	42·6	49·0	+0·5	49	0	—	—	—	—	—	—	4	1·02	−0·44	—	—	—	—

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1912.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	TEMPERATURE ON GRASS. No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	Difference from Average.	4 feet. Mean for week.	Difference from Average.	RAINFALL. No. of Rain-days.	Rainfall in the week.	Difference from the Average.	BRIGHT SUNSHINE. Daily Mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.
Station Values, Additions.		°		°		°	°	°	°	Day-deg.	Day-deg		°	°	°	°	°		Ins.	Ins.	Hrs.	Hrs.	%	%
No. 43, p. 170 ..	Strathpeffer ..	49	23rd	29	21st	46·9	34·7	40·6	-3·6	14	28	—	—	—	—	—	—	5	0·27	-0·38	2·4	-0·2	25	- 3
No. 44, p. 174 ..	Bettws-y-Coed ..	61	27th	30	27th	51·4	38·6	44·8	-3·0	34	10	1	30	46·9	+0·7	49·0	-1·6	5	2·41	—	2·0	—	21	—
No. 48, p. 190 ..	Glencarron .. &	48	25, 26	12	29th	38·0	26·7	32·4	-7·3	0	67	—	—	—	—	—	—	5	4·47	+2·30	—	—	—	—
No. 48, p. 190 ..	Bawtry	54	26th	23	30th	44·6	34·0	39·3	-1·1	7	30	—	—	—	—	—	—	3	1·05	+0·61	—	—	—	—
No. 49, p. 194 ..	Glencarron .. &	52	7th	11	1st	42·5	28·6	35·8	-2·9	1	35	—	—	—	—	—	—	4	4·03	+1·80	—	—	—	—
No. 50, p. 198 ..	Glencarron .. &	55	11th	34	12th	48·5	39·6	44·2	+6·3	25	7	—	—	—	—	—	—	7	4·75	+2·45	—	—	—	—
No. 51, p. 202 ..	Cromer	52	15th	34	17th	46·4	38·7	42·7	+5·1	19	9	—	—	—	—	—	—	2	0·10	—	—	—	—	—
No. 51, p. 203 ..	Ballinacurra	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·9	—	12	—
No. 52, p. 206 ..	Castlebay, Barra Isd.	49	24, 27	36	26th	47·1	40·4	43·9	+1·8	20	4	—	—	—	—	—	—	6	1·70	—	0·1	—	2	—
No. 52, p. 206 ..	Cromer	55	28th	49	27th	49·9	43·3	46·7	+9·3	33	0	—	—	—	—	—	—	7	0·90	—	—	—	—	—
No. 52, p. 206 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	45·2	+2·4	48·2	+1·4	—	—	—	—	—	—	—
No. 52, p. 206 ..	Colmonell .. &	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	0·80	-0·32	—	—	—	—
No. 52, p. 207 ..	Guernsey (Brooklyn)	—	—	—	—	—	—	—	—	—	—	0	39	48·1	+2·3	49·6	+0·9	—	—	—	—	—	—	—
Station Values, Corrections.																								
No. 1, p. 2 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·4	-0·5	6	- 7
No. 1, p. 2 ..	Buxton..	—	—	—	—	45·1	—	40·7	+5·0	9	25	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 1, p. 2 ..	Shrewsbury	—	—	29	31st	50·1	38·4	44·5	+5·4	33	10	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 1, p. 3 ..	Birr Castle	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·12	+0·45	—	—	—	—
No. 2, p. 6 ..	Spurn Head	—	—	—	—	43·4	—	39·4	+0·7	4	27	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Fulbeck	—	—	—	—	—	33·6	39·2	+2·0	—	32	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Buxton..	—	—	—	—	—	29·8	34·8	-0·7	—	50	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 2, p. 6 ..	Birmingham	—	7, 9	—	—	44·3	—	40·2	+2·4	6	25	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 3, p. 10 ..	Newcastle	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·0	-0·9	0	-12
No. 3, p. 10 ..	Bettws-y-Coed ..	—	—	—	—	43·9	—	38·9	-1·8	5	33	—	—	—	—	—	—	—	—	—	—	—	1	—
No. 3, p. 11 ..	Llangammarch Wells.	—	—	—	—	—	—	—	—	—	—	—	—	42·3	+2·8	—	—	—	—	—	—	—	—	—
No. 3, p. 11 ..	Markree Castle ..	—	—	—	—	—	37·2	42·8	+3·4	26	13	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 3, p. 11 ..	Birr Castle	—	—	—	—	49·4	—	45·4	+5·8	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 14 ..	Buxton..	—	—	—	—	—	30·6	34·4	-1·0	—	53	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 4, p. 14 ..	Bettws-y-Coed ..	50	—	—	—	42·0	—	37·5	-3·0	0	32	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 5, p. 18 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	0·28	-0·10	—	—	—	—
No. 5, p. 18 ..	Geldeston	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·6	+0·5	30	+ 7
No. 5, p. 18 ..	Buxton	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·19	-0·83	—	—	—	—
No. 5, p. 18 ..	Swarraton	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	0·06	-0·42	—	—	—	—
No. 6, p. 22 ..	Huddersfield.. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·6	—	18	—
No. 6, p. 22 ..	Glasgow	—	—	—	—	—	31·3	35·9	-2·6	—	43	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 6, p. 22 .	Llandudno	—	—	—	—	43·7	—	38·8	-2·5	5	30	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 6, p. 23 ..	Markree Castle ..	—	—	—	—	43·9	—	38·0	-1·8	5	37	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 6, p. 23 ..	Scilly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·97	+0·30	—	—	—	—
No. 7, p. 26 ..	Scarborough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	0·12	-0·32	—	—	—	—
No. 7, p. 26 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	38·1	+0·5	—	—	—	—	—	—	—	—	—
No. 7, p. 26 ..	Huddersfield.. ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·4	—	4	—
No. 7, p. 26 ..	Newton Rigg.. ..	—	—	—	—	—	35·3	40·7	+4·1	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 7, p. 26 ..	Stonyhurst	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·56	-0·24	—	—	—	—
No. 7, p. 26 ..	Llandudno	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·86	+0·38	—	—	—	—
No. 8, p. 30 ..	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·6	0·0	26	0
No. 8, p. 30 ..	Nottingham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·8	—	18	—
No. 8, p. 30 ..	Hereford	—	—	—	—	—	38·5	44·9	+5·1	35	10	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 9, p. 35 ..	Cullompton	—	29th	—	28th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 9, p. 35 ..	Plymouth	—	—	—	—	—	46·4	49·7	+7·0	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 10, p. 38 ..	Strathpeffer	—	—	—	—	—	35·5	41·3	+3·2	—	25	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 10, p. 38 ..	Buxton..	—	—	—	—	—	36·9	40·6	+3·6	—	19	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 11, p. 42 ..	Llandudno	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	0·66	+0·06	—	—	—	—
No. 11, p. 43 ..	Markree Castle ..	—	—	—	—	51·0	—	43·8	+2·7	34	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 11, p. 43 ..	Scilly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·79	+0·25	—	—	—	—
No. 12, p. 46 ..	Llandudno	—	—	—	—	48·6	38·3	43·3	+0·3	25	10	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 13, p. 50 ..	Nairn	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·5	—	36	—
No. 14, p. 54 ..	Hillington	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·22	-0·17	—	—	—	—
No. 14, p. 54 ..	West Linton	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·65	—	—	—	—	—
No. 14, p. 54 ..	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·9	-0·2	30	-2
No. 14, p. 54 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·9	-1·9	22	-9
No. 15, p. 58 ..	Strathpeffer	—	—	—	—	—	34·4	40·3	-2·3	—	28	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 15, p. 58 ..	Alnwick Castle ..	—	—	—	—	—	—	—	—	—	—	—	—	41·3	-0·8	—	—	—	—	—	—	—	—	—
No. 15, p. 58 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6·4	+2·1	48	+16
No. 15, p. 58 ..	Oxford	—	—	—	—	—	—	—	—	—	—	—	16	—	—	—	—	—	—	—	—	—	—	—
No. 15, p. 58 ..	Stonyhurst	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·30	-0·04	—	—	—	—
No. 16, p. 62 ..	Baltasound	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 16, p. 62 ..	Alnwick Castle ..	—	—	—	—	—	—	—	—	—	—	—	—	46·4	+3·3	—	—	—	—	—	—	—	—	—
No. 16, p. 62 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7·5	+2·9	54	+21
No. 16, p. 62 ..	Llandudno	66	19th	—	—	61·0	42·6	51·4	+4·6	66	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 66 ..	Douglas	—	—	—	—	—	45·1	52·2	+6·0	71	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 66 ..	Bettws-y-Coed ..	—	—	—	—	64·3	39·0	51·0	+3·4	76	8	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 17, p. 67 ..	Markree Castle ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	47·6	—	—	—	—	—	—	—	—
No. 18, p. 70 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·7	-2·4	18	-16
No. 18, p. 70 ..	Nairn	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5·8	—	38	—
No. 18, p. 70 ..	Marchmont .. &	59	—	—	—	51·6	—	44·6	-0·2	33	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 18, p. 70 ..	Buxton	—	—	—	—	—	37·1	45·1	+0·5	—	14	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 18, p. 71 ..	Portland	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0	0·00	—	—	—	—	—
No. 19, p. 74 ..	Strathpeffer	—	—	—	—	60·9	—	52·8	+6·0	76	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 19, p. 74 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	0·20	-0·23	—	—	—	—

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1912.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	TEMPERATURE ON GRASS. No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	Difference from Average.	4 feet. Mean for week.	Difference from Average.	RAINFALL. No. of Rain-days.	Rainfall in the week.	Difference from the Average.	BRIGHT SUNSHINE. Daily Mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.
Station Values, Corrections.		°		°		°	°	°	°	Day-deg.	Day-deg.		°	°	°	°	°		Ins.	Ins.	Hrs.	Hrs.	%	%
No. 19, p. 74 ..	Buxton	—	—	—	—	—	47·1	53·8	+7·8	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 19, p. 74 ..	Shrewsbury	—	—	—	—	64·3	52·7	58·2	+8·0	113	—	—	—	—	—	—	—	—	0·22	—	—	—	—	—
No. 19, p. 75 ..	Pembroke	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·29	−0·15	—	—	—	—
No. 20, p. 78 ..	Buxton	—	—	—	—	57·6	—	49·0	+1·8	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 20, p. 78 ..	Southport	—	—	—	—	—	—	—	—	—	—	1	27	—	—	—	—	—	—	—	—	—	—	—
No. 20, p. 79 ..	Aberystwyth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7·2	—	46	—
No. 20, p. 79 ..	Plymouth	—	—	—	—	—	—	—	—	—	—	—	—	58·7	+3·2	—	—	—	—	—	—	—	—	—
No. 21, p. 82 ..	Baltasound	—	—	39	20, 21, 25.	—	—	—	—	—	—	—	—	—	—	—	—	—	0·27	—	—	—	—	—
No. 21, p. 82 ..	Castlebay	—	—	—	24, 25	—	44·9	48·9	−2·6	48	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 21, p. 82 ..	Strathpeffer	—	—	—	—	54·9	—	46·5	−2·6	44	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 21, p. 82 ..	Scarborough	—	—	—	—	—	44·0	48·5	−2·0	46	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 21, p. 82 ..	Burnley	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·6	—	16	—
No. 21, p. 82 ..	Holyhead	—	—	43	25th	—	46·4	50·6	−0·8	60	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 21, p. 82 ..	Bettws-y-Coed ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5·0	—	31	—
No. 21, p. 83 ..	Plymouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5·3	−2·0	34	−13
No. 22, p. 86 ..	Swarraton	69	29th	—	—	65·7	—	52·6	−0·6	79	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 22, p. 87 ..	Pembroke	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·66	+0·23	—	—	—	—
No. 22, p. 87 ..	Plymouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·41	−0·03	—	—	—	—
No. 22, p. 86 ..	Norwich	—	—	—	—	64·0	—	53·5	+0·5	81	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 23, p. 90 ..	Fort Augustus ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·4	−3·1	9	−7
No. 23, p. 90 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·7	—	4	—
No. 23, p. 90 ..	Newton Rigg	—	—	—	7th	59·1	46·4	52·3	−0·5	72	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 23, p. 90 ..	Stonyhurst	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·13	+0·48	—	—	—	—
No. 23, p. 90 ..	Llandudno	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·6	−2·1	28	−13
No. 23, p. 91 ..	Plymouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	2·10	+1·62	—	—	—	—
No. 24, p. 94 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·6	—	4	—
No. 24, p. 94 ..	Scarborough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·79	+0·37	2·3	—	14	—
No. 24, p. 94 ..	Clacton	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	−0·4	—	—	—	—	—	—	—
No. 24, p. 94 ..	Huddersfield ..	—	—	—	—	—	—	—	—	—	—	—	—	55·4	−2·5	—	—	—	—	—	—	—	—	—
No. 24, p. 94 ..	Portsmouth	—	—	—	—	—	—	—	—	—	—	0	44	60·4	−0·8	57·0	0·0	—	—	—	7·0	—	43	—
No. 24, p. 95 ..	Plymouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	0·27	−0·24	—	—	—	—
No. 24, p. 95 ..	Malin Head	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·69	+1·12	—	—	—	—
No. 24, p. 95 ..	Scilly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	0·33	−0·06	—	—	—	—
No. 25, p. 98 ..	Strathpeffer	—	—	—	—	61·4	—	53·4	−0·8	80	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 25, p. 98 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·9	—	17	—
No. 26, p. 102 ..	Baltasound	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·22	—	—	—	—	—
No. 26, p. 102 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·5	—	26	—
No. 26, p. 102 ..	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·6	−2·1	21	−13
No. 26, p. 103 ..	Llangammarch Wells	—	—	—	—	—	—	—	—	—	—	—	43	—	—	51·8	−0·4	—	—	—	—	—	—	—
No. 26, p. 103 ..	Jersey	—	—	—	—	—	54·3	59·6	−0·4	123	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 27, p. 106 ..	Fulbeck	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	1·19	+0·72	—	—	—	—
No. 27, p. 106 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5·1	—	29	—
No. 28, p. 110 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·1	—	24	—
No. 28, p. 110 ..	West Linton	—	—	—	—	65·3	—	56·4	+1·1	101	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 28, p. 110 ..	Bettws-y-Coed ..	—	—	—	—	—	54·3	60·5	+1·6	130	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 28, p. 111 ..	Pembroke	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	0·76	+0·22	—	—	—	—
No. 29, p. 114 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5·8	—	35	—
No. 29, p. 114 ..	Cromer	—	—	—	—	68·7	—	61·6	+1·6	137	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 29, p. 114 ..	Newton Rigg ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	0·07	−0·63	—	—	—	—
No. 29, p. 114 ..	Bettws-y-Coed ..	—	—	—	—	—	53·0	61·4	+2·4	136	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 29, p. 115 ..	Newquay	—	—	—	—	—	—	—	—	—	—	—	—	63·5	—	—	—	—	—	—	—	—	—	—
No. 30, p. 118 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·0	—	18	—
No. 30, p. 118 ..	Norwich (Eaton) ..	77	24, 25	52	21st	72·7	56·7	64·1	+3·5	155	—	—	47	—	—	—	—	—	1·23	—	—	—	—	—
No. 30, p. 118 ..	Cambridge	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·1	−3·6	20	−23
No. 31, p. 122 ..	Bettws-y-Coed ..	—	—	—	—	—	50·0	55·2	−3·7	92	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 31, p. 122 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·9	—	12	—
No. 31, p. 122 ..	York	—	—	—	—	—	—	—	—	—	—	—	—	60·6	+0·8	58·5	+2·0	—	—	—	—	—	—	—
No. 31, p. 122 ..	Manchester (Whit Pk.).	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	2·37	—	—	—	—	—
No. 32, p. 126 ..	Nairn	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·7	—	11	—
No. 32, p. 126 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·8	—	5	—
No. 32, p. 126 ..	Marchmont	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·9	−3·1	12	−20
No. 32, p. 126 ..	York	—	—	—	10th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 32, p. 126 ..	Newton Rigg	—	—	—	—	—	47·3	53·1	−3·0	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 33, p. 130 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·4	—	9	—
No. 33, p. 130 ..	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	0·35	−0·21	—	—	—	—
No. 33, p. 130 ..	Scarborough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·4	—	16	—
No. 33, p. 130 ..	Ventnor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·75	+0·28	—	—	—	—
No. 34, p. 134 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·3	—	16	—
No. 34, p. 134 ..	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·7	−3·0	12	−20
No. 34, p. 134 ..	Manchester (Whit Pk.).	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	2·32	—	—	—	—	—
No. 35, p. 138 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·9	—	21	—
No. 35, p. 138 ..	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·8	−2·7	13	—
No. 35, p. 138 ..	Cromer	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6·58	—	—	—	—	—
No. 35, p. 138 ..	Manchester (Whit Pk.).	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	0·95	—	—	—	—	—
No. 36, p. 142 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·6	—	27	—
No. 36, p. 142 ..	Cambridge	—	—	41	13th	—	47 1	54·1	−4·5	85	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 37, p. 146 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5·0	—	39	—
No. 37, p. 146 ..	Cambridge	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·8	−3·3	14	−26
No. 37, p. 146 ..	Aspatria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·0	—	23	—
No. 37, p. 146 ..	Manchester (Whit. Park).	—	—	—	—	56·1	47·7	51·7	—	68	—	—	—	—	—	—	—	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

CORRECTIONS AND ADDITIONS FOR 1912.

Number and Page of Report.	Numbers of Districts and Names of Stations.	TEMPERATURE. Highest observed.	Date.	Lowest observed.	Date.	Mean for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the week from Average.	Accumulated Heat for the week in Day-degrees. Above 42°	Below 42°	TEMPERATURE ON GRASS, No. of obs. 30° or below.	Lowest Reading.	EARTH TEMPERATURE. 1 foot. Mean for week.	Difference from Average.	4 feet. Mean for week.	Difference from Average.	RAINFALL. No. of Rain-days.	Rainfall in the week.	Difference from the Average.	BRIGHT SUNSHINE. Daily Mean.	Difference from the Average.	Percentage of possible duration.	Difference from the Average.
Station Values, Corrections.		°		°		°	°	°	°	Day-deg.	Day-deg.		°	°	°	°	°		Ins.	Ins.	Hrs.	Hrs.	%	%
No. 38, p. 150 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·4	—	28	—
No. 38, p. 150 ..	West Linton	63	17th	—	—	59·0	—	49·8	-1·0	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Rounton	—	—	—	—	57·3	—	50·3	-2·4	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Tottenham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·8	—	23	—
No. 38, p. 150 ..	Raunds	—	—	—	—	60·6	—	53·8	-1·0	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Hastings	—	—	—	—	—	50·1	55·0	-2·4	91	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 38, p. 150 ..	Stonyhurst	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	0·01	-0·97	—	—	—	—
No. 39, p. 154 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·4	—	29	—
No. 39, p. 154 .	West Witton	—	—	—	—	—	41·4	47·7	—	42	2	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 39, p. 154 ..	Bettws-y-Coed ..	—	—	—	—	—	—	—	—	—	—	—	—	49·4	-3·7	—	—	—	—	—	—	—	—	—
No. 40, p. 158 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3·0	—	27	—
No. 40, p. 158 ..	Blackpool	—	—	—	—	54·6	40·0	47·1	-5·0	44	6	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 40, p. 158 ..	Bettws-y-Coed ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·5	—	40	—
No. 41, p. 162 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·0	—	37	—
No. 41, p. 162 ..	Colmonell	—	—	—	—	—	41·6	51·4	+2·3	66	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 41, p. 162 ..	Manchester City ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	52·8	-2·8	—	—	—	—	—	—	—
No. 42, p. 166 ..	Strathpeffer	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·66	0·00	—	—	—	—
No. 42, p. 166 ..	Balruddery	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2·2	—	22	—
No. 42, p. 167 ..	Armagh	—	—	—	—	—	—	—	—	—	—	—	—	50·9	-1·1	—	—	—	—	—	—	—	—	—
No. 42, p. 167 ..	Cahir	64	13th	—	—	57·9	—	51·0	+1·6	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No 42, p. 170 ..	Durham	—	—	—	—	—	33·0	40·4	-5·1	—	34	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 43, p. 170 ..	York	—	—	—	23, 26	—	36·6	42·9	-3·6	29	15	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 43, p. 170 ..	Portsmouth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53·1	-3·0	—	—	—	—	—	—	—
No. 43, p. 170 ..	Westminster	—	—	—	—	—	39·3	46·0	-1·4	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 43, p. 170 ..	Glasgow	—	—	—	—	—	—	—	—	—	—	4	20	—	—	—	—	—	—	—	—	—	—	—
No. 44, p. 174 ..	Shrewsbury	—	—	—	—	52·9	—	46·6	+0·7	38	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 44, p. 174 ..	Cirencester	—	—	—	—	50·7	—	45·2	+0·9	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 44, p. 174 ..	Glasgow	—	—	—	—	—	—	—	—	—	—	2	19	—	—	—	—	—	—	—	—	—	—	—
No. 44, p. 174 ..	Stonyhurst	—	—	26	1st	—	40·0	45·1	+0·6	30	6	—	—	—	—	—	—	—	—	—	—	—	—	—
No 44, p. 175 ..	Llangammarch Wells.	—	—	—	—	—	38·6	44·9	+0·4	35	10	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 45, p. 178 ..	Balmoral	—	—	—	—	53·3	—	44·1	+4·1	45	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 45, p. 178 ..	Hastings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	0·42	-0·34	—	—	—	—
No. 46, p. 182 ..	Glasgow	—	—	—	—	—	—	—	—	—	—	2	22	—	—	—	—	—	—	—	—	—	—	—
No. 47, p. 186 ..	Norwich	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·31	—	—	—	—	—
No. 47, p. 187 ..	Arlington	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·67	-0·68	—	—	—	—
No. 48, p. 190 ..	Hastings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·48	+0·79	—	—	—	—
No. 48, p. 190 ..	Glasgow	—	—	—	—	—	—	—	—	—	—	—	10	—	—	—	—	—	—	—	—	—	—	—
No. 48, p. 190 .	Manchester (Whit. Pk.).	—	—	—	—	—	35·0	39·7	—	—	—	—	26	—	—	—	—	—	—	—	—	—	—	—
No. 48, p. 191 ..	Dublin (Trin. Coll.)	—	—	—	—	—	—	—	—	—	—	4	20	—	—	—	—	—	—	—	—	—	—	—
No. 49, p. 194 ..	Durham	—	—	—	—	—	29·9	36·5	-2·7	—	45	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 49, p. 194 .	Norwich	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·4	—	5	—
No. 49, p. 194 ..	Tottenham	52	4, 6	—	—	47·7	—	42·9	+1·7	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 49, p. 194 ..	Bettws-y-Coed ..	—	—	30	1st	—	35·9	44·1	+0·4	—	17	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 50, p. 198 ..	West Linton	—	—	—	—	—	37·1	42·6	+5·2	—	14	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 50 p. 198 ..	Scarborough	—	—	—	—	50·0	—	46·1	+5·9	29	—	—	—	—	—	—	—	—	0·30	-0·20	—	—	—	—
No. 50, p. 198 ..	Marlborough ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·4	-0·7	5	- 9
No. 50, p. 198 ..	Hampstead	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·59	—	—	—	—	—
No. 50, p. 198 ..	Manchester (Whit. Pk.).	—	—	—	—	51·7	41·0	46·6	—	36	3	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 51, p. 202 ..	Castlebay	51	19th	—	—	47·0	—	42·7	+0·2	21	—	—	—	—	—	—	—	7	1·51	—	0·1	—	—	—
No. 51, p. 202 ..	Marchmont	—	—	—	—	—	—	—	+2·3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 51, p. 202 ..	Spurn Head	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·13	-0·27	—	—	—	—
No. 51, p. 202 ..	Buxton	—	—	—	—	—	36·0	41·4	+5·2	—	26	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 51, p. 202 ..	Cally	50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 51, p. 202 ..	Bettws-y-Coed ..	54	20th	—	—	51·9	40·7	46·5	+4·2	37	4	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Durham	—	—	33	23rd	—	35·3	41·2	+3·5	—	28	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Tottenham ..	—	—	—	—	—	45·7	48·7	+9·5	47	—	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Buxton	—	—	—	—	—	37·9	42·3	+6·4	19	11	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 206 ..	Oxford	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	+1·53	—	—	—	—
No. 52, p. 206 ..	Bath	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·9	—	12	—
No. 52, p. 206 ..	Bettws-y-Coed ..	—	—	—	—	—	40·0	45·2	+3·4	31	6	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 52, p. 207 ..	Pembroke	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·2	-1·3	3	-17
No. 52, p. 207 ..	Roche's Point ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1·31	+0·11	—	—	—	—
No 52, p. 207 ..	Scilly	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0·3	-1·3	4	-17

Number and Page of Report.	Names of Stations.	Temperature of the Sea. Highest.	Lowest.	Mean.	Diff. from Average.
Station Values, Additions.					
No. 2, p. 7 ..	Lerwick	44	44	44·0	+0·6
No. 11, p. 43 ..	Lerwick	44	43	43·1	+0·9
No. 12, p. 47 ..	Lerwick	44	43	44·0	+1·7
No. 13, p. 51 ..	Lerwick	44	44	44·0	+1·9
No. 14, p. 55 ..	Lerwick	44	44	44·0	+0·6
No. 15, p. 59 ..	Lerwick	44	43	43·4	—
No. 16, p. 63 ..	Plymouth	52	50	50·8	+2·3
No. 28, p. 111 ..	Lerwick	52	52	52·0	+0·4
No. 32, p. 126 ..	Lerwick	54	53	53·4	+0·3

WEEKLY WEATHER REPORT.

MEAN SEA TEMPERATURE IN DEGREES FAHRENHEIT, 1912, AND DIFFERENCES FROM THE AVERAGES FOR THE FIVE YEARS 1907–1911.

Period of 4 Weeks.	SCOTLAND, N.						SCOTLAND, E.						ENGLAND. N.E.				ENGLAND, E.				ENGLAND, S.E.	
	LERWICK.		KIRK-WALL.		WICK.		CROM-ARTY.		PENNAN BAY.		ABER-DEEN.		BERWICK.		SCAR-BOROUGH.		SHIP-WASH.		MARGATE.		EAST-BOURNE	
	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.
1. Dec. 31–Jan. 27	44·2	+0·9	42·2	+1·3	44·9	+0·2	41·6	+1·6	43·9	+3·7	44·4	+4·7	40·9	+0·4	40·8	−0·5	45·3	+4·7	44·5	+4·3	45·6	+4·0
2. Jan. 27–Feb. 24	41·9	−0·2	42·0	+1·5	43·3	−0·2	38·2	−0·7	41·7	+1·5	41·8	+1·9	38·1	−1·1	39·7	−0·5	42·2	+2·9	41·5	+1·9	41·9	+2·3
3. Feb. 24–Mar. 23	43·5	+1·3	44·5	+4·0	44·9	+2·0	42·0	+2·5	42·9	+2·8	43·0	+2·4	40·0	+0·6	42·9	+2·5	45·8	+5·5	46·3	+4·9	45·8	+4·1
4. Mar. 23–Apr. 20	43·8	+0·3	46·2	+3·0	45·7	+2·0	43·7	+1·6	44·2	+1·3	44·4	+1·5	42·0	+0·6	44·9	+2·2	47·3	+4·6	48·7	+3·6	47·6	+2·7
5. April 20–May 18	46·0	+1·0	48·9	+2·8	46·9	+1·1	49·2	+4·1	48·2	+2·7	47·0	−1·7	44·7	+1·0	49·7	+4·2	50·5	+3·0	53·8	+3·4	53·5	+3·6
6. May 18–June 15	48·0	+0·2	51·0	0·0	49·1	−0·2	51·8	+0·6	50·8	−0·6	49·8	+1·0	47·3	−1·0	51·8	+1·8	54·9	+1·4	58·3	+0·9	57·8	+1·3
7. June 15–July 13	50·8	+0·2	57·8	+4·8	51·4	−0·6	55·6	+1·4	52·3	−1·0	51·7	−0·4	51·4	+0·1	54·8	+1·5	61·1	+3·1	62·5	+2·1	61·8	+1·6
8. July 13–Aug. 10	52·8	+0·1	60·2	+5·0	53·2	−0·4	57·0	+0·6	55·6	−0·8	53·5	−1·2	53·7	−0·7	55·9	−0·9	63·6	+2·1	64·8	+0·9	64·6	+1·5
9. Aug. 10–Sept. 7..	52·8	+0·1	55·8	+1·0	52·0	−1·4	54·7	−1·2	53·8	−1·5	53·9	−0·7	52·0	−2·2	56·3	−0·4	60·2	−2·4	60·2	−3·3	60·2	−3·5
10. Sept. 7–Oct. 5	50·7	−0·7	50·4	−1·8	50·5	−1·7	51·9	−1·9	52·6	−0·7	52·3	−0·4	48·8	−3·6	52·7	−1·3	56·6	−3·4	55·8	−4·3	55·8	−4·3
11. Oct. 5–Nov. 2	48·5	−1·4	48·5	0·0	48·0	−3·5	48·2	−2·0	49·9	+0·4	50·7	+0·5	46·8	−3·1	50·0	−1·3	53·8	−2·3	53·2	−2·3	52·9	−3·2
12. Nov. 2–Nov. 30	45·9	−0·6	44·4	+0·6	47·6	−1·1	44·0	−0·1	46·1	+1·8	47·9	+1·9	44·3	−1·2	42·9	−3·6	49·2	0·0	48·9	−0·4	48·4	−0·5
13. Nov. 30–Dec. 28	44·3	−0·7	42·3	−0·4	45·3	−0·9	41·3	−0·6	41·7	−1·0	43·8	+0·2	41·7	−1·3	42·4	−1·7	46·4	+1·1	44·9	+0·1	46·9	+0·4
QUARTERS.																						
1. Dec. 31–Mar. 30	43·2	+0·6	43·1	+2·3	44·4	+0·7	40·8	+1·2	42·9	+2·6	43·0	+2·8	39·8	0·0	41·6	+0·9	44·7	+4·5	44·4	+3·8	44·6	+3·4
2. Mar. 30–June 29	46·7	+0·4	50·1	+2·2	47·9	+0·6	49·6	+1·9	48·5	+0·7	47·8	+1·0	45·7	−0·1	50·2	+2·8	52·5	+2·6	55·3	+2·4	54·8	+2·2
3. June 29–Sept. 28	52·2	0·0	56·4	+2·2	52·3	−0·4	55·1	−0·3	54·1	−1·0	53·2	−0·8	52·0	−1·6	55·0	−0·8	60·8	−0·3	61·1	−1·6	61·1	−1·1
4. Sept. 28–Dec. 28	46·5	−0·9	45·4	−0·1	47·1	−1·9	44·9	+1 1	46·3	+0·2	47·7	+0·7	44·0	−2·5	45·5	−2·2	52·1	+1·2	48·9	−1·0	49·8	−1·4
YEAR	47·2	+0·1	48·8	+1·7	48·0	−0·2	47·6	+0·6	48·0	+0·7	47·9	+0·9	45·4	−1·0	48·1	+0·2	52·5	+2·0	52·4	+0·9	52·5	+0·8
YEAR 1912 Highest Observed	54		64		55		59		60		55		55		59		67		66		66	
YEAR 1912 Lowest Observed	41		37		42		34		38		40		37		35		37		36		35	

Period of 4 Weeks.	SCOTLAND, W.				ENGLAND, N.W.		ENGLAND, S.W.								IRELAND, N.W.				IRELAND, S.W.			
	LAMLASH.		BALLAN-TRAE.		PORT ERIN.		NEW-QUAY.		SCILLY.		PLY-MOUTH.		SAL-COMBE.		SHEEP-HAVEN.		TEELIN.		CLEGGAN.		SEAFIELD.	
	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.	Mean.	Diff. from Av.
1. Dec. 31 Jan. 27	45·0	−0·3	43·9	+1·5	46·4	+0·4	48·0	+1·7	49·0	—	48·6	+1·1	48·9	+2·2	44·8	−0·1	44·3	−0·1	44·3	+0·2	46·6	+0·9
2. Jan. 27–Feb. 24	42·5	−1·4	42·8	+0·3	44·1	−0·4	46·4	+0·5	46·1	—	46·4	+0·1	46·2	+1·0	44·1	−0·5	42·5	−1·5	40·4	−3·7	43·7	−1·9
3. Feb. 24–Mar. 23	43·2	−0·4	44·7	+1·7	45·8	+2·0	48·9	+2·5	48·1	—	48·3	+2·4	48·7	+3·6	45·8	+1·0	45·2	+0·3	43·0	−1·6	46·4	+0·3
4. Mar. 23–Apr. 20	45·1	+0·5	46·4	+1·8	46·5	+1·6	50·2	+2·0	51·3	—	49·8	+2·1	49·8	+3·1	46·4	−0·2	47·1	0·0	46·9	+0·3	49·3	+0·9
5. Apr. 20–May 18	48·6	+2·2	50·9	+3·8	48·8	+1·7	53·6	+2·8	54·3	—	54·2	+4·1	52·5	+2·9	49·8	+1·1	52·6	+1·5	51·7	+2·0	52·5	+0·9
6. May 18–June 15	52·3	+0·9	52·0	+0·7	51·5	+1·1	55·1	−0·6	56·5	—	56·3	+2·0	55·8	+2·3	54·6	+0·4	55·4	−0·7	54·8	+0·9	56·6	+0·7
7. June 15–July 13	54·3	+0·3	54·4	+0·6	53·3	+1·8	57·7	−1·0	57·9	—	58·2	+0·5	56·0	+0·2	57·0	+0·4	57·2	−1·1	56·8	+0·9	61·1	+2·3
8. July 13–Aug. 10	57·0	+1·1	56·9	+1·0	56·1	+0·1	59·6	−2·1	58·4	—	60·6	0·0	59·1	+0·7	58·2	−0·6	57·5	−2·5	57·3	−0·2	59·4	−1·7
9. Aug. 10–Sept. 7..	53·9	−1·8	55·8	−0·9	56·3	−0·6	59·0	−2·4	56·7	—	57·7	−2·5	57·3	−2·6	55·6	−3·8	56·6	−3·4	55·8	−1·6	57·9	−2·2
10. Sept. 7–Oct. 5	53·1	−1·5	53·0	−1·0	54·6	−1·2	57·4	−2·1	56·4	—	56·6	−1·9	56·8	−2·0	53·8	−2·9	55·1	−2·0	54·7	−0·6	55·2	−2·6
11. Oct. 5–Nov. 2	50·9	−1·0	49·4	−1·3	53·1	−0·6	52·6	−4·3	54·5	—	53·0	−1·2	54·9	−1·5	50·4	−2·8	50·8	−2·5	52·6	+1·0	52·5	−1·1
12. Nov. 2–Nov. 30	48·5	−0·6	47·0	+1·2	50·4	0·0	51·9	+0·1	52·1	—	52·6	−0·1	51·6	−0·2	47·9	−0·3	48·2	0·0	47·9	+1·0	51·5	+2·3
13. Nov. 30–Dec. 28	46·2	−1·2	44·4	−0·2	48·4	−0·2	50·7	+2·0	50·4	—	50·2	+0·9	48·9	−0·4	46·3	+0·2	46·3	+1·0	48·2	+3·0	51·1	+3·8
QUARTERS.																						
1. Dec. 31–Mar. 30	43·6	−0·6	43·9	+1·2	45·5	+0·8	47·9	+1·6	47·9	—	47·9	+1·3	48·1	+2·4	45·0	+0·1	44·1	−0·5	42·8	−1·6	45·7	−0·2
2. Mar. 30–June 29	49·2	+0·5	50·7	+2·0	50·0	+1·5	53·9	+1·0	54·9	—	54·4	+2·7	53·2	+2·0	51·5	+0·2	53·0	+0·2	52·4	+1·6	54·4	+1·3
3. June 29–Sept. 28	55·0	−0·3	55·6	0·0	55·9	−0·1	58·8	−1·9	57·4	—	58·5	−1·2	57·8	−0·9	56·5	−1·9	56·8	−2·1	56·3	−0·5	58·5	−1·5
4. Sept. 28–Dec. 28	48·7	−1·1	47·2	−0·3	48·5	−2·8	52·0	−0·9	52·6	—	52·8	−0·3	52·1	−0·8	48·5	−1·2	48·7	−2·3	49·9	+1·4	51·6	+1·1
YEAR	49·1	−0·4	49·4	+0·8	50·0	−0·1	50·7	−2·5	52·6	—	53·4	+0·6	52·8	+0·7	50·4	−0·7	50·7	−1·2	50·4	+0·3	52·6	+0·2
YEAR 1912 Highest Observed	63		60		60		60		60		62		64		61		63		60		67	
YEAR 1912 Lowest Observed	38		37		39		45		45		43		37		41		37		34		37	

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 1. FIRST WEEK, SUNDAY, DECEMBER 31ST, 1911 TO SATURDAY, JANUARY 6TH, 1912. *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The general condition was very dull, with occasional rain in all districts. Snow and sleet were experienced in the North Midlands and the north and north-east of Britain generally on Saturday. Aurora was observed at Gordon Castle on the 5th, and thunder and lightning occurred at Jersey on the 6th.

Temperature remained above the average, the excess being very large over the greater part of the Kingdom, more than 6° in the Midlands and England East and South-East. The highest of the maxima were recorded on various dates, and ranged from 56° in Scotland East and England North-West to 52° in England South-East. The lowest of the minima, which occurred at most places on the 6th, varied from 27° in Scotland West to 36° in England South-East and to 38° in the English Channel. The lowest grass minima were 21° at Crathes, 24° at Birmingham, and 25° or 26° at several other stations.

Mean Temperature of the Sea. The water was warmer than during the corresponding week of last year very generally, and also above the average. The means for the week ranged from 50° at Plymouth and Salcombe, and 49° at Scilly, to below 43° at Kirkwall and Scarborough, and to 42° at Burnmouth.

Rainfall exceeded the average except in Scotland East and West, the difference being very considerable in most districts. On the 2nd as much as 1·11 in. fell at Fort William, on the 4th 1·36 in. at Arlington, followed by 0·92 in. and 0·85 in. on the 5th and 6th. On the 5th 1·16 in. fell at Falmouth, and on the 6th rather more than 1·0 in. at Bradford and Huddersfield. In the northern half of the Kingdom much of the precipitation on Saturday was in the form of snow.

Bright Sunshine was less than the normal in almost all parts of the Kingdom. At a large majority of the stations the mean daily duration amounted to less than an hour.

Barometer and Wind. Depressions from the Atlantic travelling eastward or north-eastward, with the barometer highest over the Spanish Peninsula and France, maintained a Southerly to Westerly current of wind over these Islands during the greater part of the period. On Saturday, however, when the centre of a deep disturbance moved from Ireland across the more Southern parts of the Kingdom the wind shifted to the South-Eastward and Eastward in Scotland, and, later in the day, to some point between North-West and North-East over nearly the whole Kingdom. The wind was often strong in force, but gales were rarely experienced. In a few widely separated localities on Friday or during the night the strength of a gale was attained, and on Saturday a gale from the Westward was experienced on various parts of our South-Western coasts, and from the Eastward or North-Eastward in the North-East of Great Britain.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 3.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Moderate	Heavy	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Moderate	Scanty	Scanty	Scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 5 weeks from Dec. 3rd, 1911.	Warmth ...	2 * 0	2 * 0	3 * 0	3 * 0	3 * 0	3 * 1	3 * 1	3 * 0	3 * 0	3 * 1	2 * 1	4 * 0
	Rainfall ...	2 * 0	3 * 0	3 * 0	5 * 0	4 * 0	5 * 0	4 * 0	5 * 0	4 * 0	4 * 0	4 * 0	5 * 0
	Sunshine ...	2 * 1	2 * 1	1 * 0	2 * 2	2 * 2	1 * 3	1 * 2	1 * 1	1 * 2	2 * 2	1 * 2	1 * 2

PAST SEASONS.

WINTER, 1910-11. Dec. 4th-March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th-June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th-Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd-Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5½ * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

(22538—24.) Wt. 113—4. 450. 1/12. D & S. G. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*50*	*1st*	*29*	*6th*	*43·0*	*37·7*	*40·5*	—	*3*	*17*	—	—	*40·3*	*+1·4*	—	—	*7*	*0·86*	—	*0·7*	—	*13*	—	*Baltasound.*
a Lerwick	50	31, 1	34	4, 5, 6	43·3	39·7	41·6	+ 2·0	4	10	—	—	—	—	—	—	7	1·54	—	0·9	+ 0·1	15	+ 2	Deerness.
a, Islands .. *a* Stornoway	52	1st	35	5, 6	45·7	40·4	43·2	+ 3·9	15	4	—	—	—	—	—	—	7	1·13	- 0·14	0·1	- 0·8	2	- 1	Stornoway.
a Castlebay, Barra Isd. ..	*51*	*1st*	*37*	*6th*	*46·9*	*42·6*	*44·8*	+ *3·1*	*20*	*0*	—	—	—	—	—	—	*7*	*0·52*	—	*0·5*	—	*7*	—	*Castlebay.*
a Wick	52	1st	34	4, 5, 6	45·1	38·9	42·1	+ 3·7	14	9	—	—	—	—	—	—	5	0·62	+ 0·02	*	*	*	*	
b, Main- *p* Strathpeffer ..	53	1st	30	6th	46·9	36·8	42·1	+ 5·0	23	15	—	—	—	—	—	—	7	0·59	- 0·18	0·7	- 0·3	11	- 4	Strathpeffer.
land. *p* Glencarron ..	50	1st	31	6th	44·9	40·3	42·7	+ 5·9	12	5	—	—	—	—	—	—	6	4·13	+ 1·79	*	*	*	*	
p Fort Augustus..	51	2nd	29	6th	46·1	39·2	42·8	+ 5·0	17	8	—	—	—	—	—	—	7	1·31	+ 0·03	0·5	+ 0·1	8	+ 2	Fort Augustus.
p Fort William ..	50	1st	30	6th	45·6	39·4	42·6	+ 3·1	15	7	—	—	—	—	—	—	7	2·61	+ 0·43	*	*	*	*	
1. SCOTLAND, E.																								
p Gordon Castle.. S	55	1st	31	6th	48·7	39·4	44·2	+ 5·8	26	7	5	21	37·7	+1·5	39·4	+0·3	—	—	—	0·9	—	13	—	Crathes S.
a Nairn .. .. : :	54	1st	34	6th	45·4	39·7	42·7	+ 5·3	15	6	—	—	—	—	—	—	5	0·29	- 0·25	*1·2*	—	*18*	—	*Gordon Castle.*
a Aberdeen ..	54	1st	33	6th	44·7	37·9	41·4	+ 3·6	8	17	—	—	—	—	—	—	4	0·35	- 0·10	0·9	—	14	—	Nairn.
a Balmoral ..	52	1, 2	28	5, 6	44·3	34·0	39·4	+ 4·9	6	31	5	25	—	—	—	—	4	0·52	- 0·52	0·8	- 0·5	12	- 9	Aberdeen.
p Crieff	52	1st	28	6th	45·0	36·6	41·0	+ 3·7	8	22	—	—	—	—	—	—	4	0·52	- 0·18	—	—	—	—	Balmoral.
a Leith	56	1st	35	6th	47·4	40·4	44·0	+ 4·7	21	4	—	—	—	—	—	—	5	0·39	- 0·53	1·2	—	17	—	Balruddery.
p West Linton .. S	50	1st	29	6th	44·1	36·0	40·2	+ 3·7	6	24	—	—	—	—	—	—	6	0·34	- 0·05	*	*	*	*	
p Marchmont .. S	52	1st	30	6th	45·1	36·4	40·9	+ 4·2	9	23	1	28	39·6	+2·8	—	—	6	0·58	—	*0·9*	—	*13*	—	*West Linton.*
																	3	0·28	- 0·26	1·5	+ 0·2	21	+ 2	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	54	1st	32	6th	47·1	39·7	43·6	+ 5·3	21	6	2	29	40·5	+3·5	41·9	+1·7	4	0·30	- 0·27	1·5	—	21	—	Cockle Park.
a Shields	55	1st	34	6th	47·4	38·0	42·9	+ 4·0	23	11	—	—	—	—	—	—	4	0·42	+ 0·02	*1·0*	—	*14*	—	*Newcastle.*
p Durham	52	1st	32	5th	46·5	35·7	41·3	+ 3·9	13	27	2	26	—	—	—	—	4	0·59	+ 0·20	0·9	- 0·5	13	- 7	Durham.
a, North .. *p* Rounton	52	1st	33	6th	46·5	36·7	41·8	+ 4·3	13	23	4	27	—	—	—	—	4	0·84	+ 0·44	*	*	*	*	Rounton.
a West Witton ..	51	1st	34	6th	46·1	39·4	42·9	—	17	7	0	31	41·5	—	41·7	—	5	1·39	—	—	—	—	—	West Witton.
p Scarborough ..	51	1st	34	6th	47·1	38·7	43·1	+ 4·2	22	9	—	—	—	—	—	—	4	0·80	+ 0·32	1·0	—	14	—	Scarborough.
p York	54	1st	32	31st	48·4	39·7	44·2	+ 6·0	25	6	—	—	42·3	+3·1	44·0	+1·1	5	0·99	+ 0·59	0·3	- 0·6	4	- 8	York.
a Spurn Head	49	1st	36	1st	46·3	38·9	42·8	+ 3·7	19	9	2	26	41·7	+3·6	44·0	+0·4	4	0·78	+ 0·43	*0·0*	—	*0*	—	*Hull.*
b, South .. *a* Lincoln	50	1, 4	31	31st	46·5	37·7	42·3	+ 4·9	20	12	—	—	40·2	+2·2	43·0	+0·2	5	0·95	+ 0·55	*	*	*	*	Lincoln.
a Fulbeck	51	1st	31	31, 1	45·7	37·6	41·8	+ 4·5	10	19	1	26	42·7	+3·2	45·1	+1·2	5	0·86	+ 0·46	0·9	—	12	—	Rauceby.
																				0·8	—	11	—	Skegness.
3. ENGLAND, E.											0	31	42·8	+3·8	44·8	+1·5	—	—	—	*0·8*	—	*11*	—	*Lowestoft.*
p Cromer	49	4, 5	35	31, 6	46·7	38·3	42·7	+ 5·4	20	10	—	—	—	—	—	—	7	1·02	—	0·7	—	9	—	Cromer.
p Hillington	50	4th	30	31st	46·4	37·7	42·2	+ 4·9	19	12	—	—	—	—	—	—	6	1·00	+ 0·52	1·1	- 0·3	14	- 4	Hillington.
a, North .. *a* Yarmouth	49	4th	32	31, 1	46·0	38·9	42·6	+ 4·5	17	9	—	—	42·3	+3·3	45·3	+1·8	3	0·87	+ 0·44	0·8	—	11	—	Yarmouth
a Norwich	50	4th	31	31st	46·0	38·4	42·4	+ 4·5	18	10	2	28	41·8	—	—	—	6	1·03	—	0·9	—	12	—	Norwich.
p Geldeston ..	52	4th	31	31st	47·4	39·7	43·7	+ 5·2	22	6	—	—	—	—	—	—	6	1·09	+ 0·69	0·9	- 0·7	12	- 9	Geldeston.
p Cambridge	53	1st	33	31st	49·2	39·3	44·5	+ 6·5	29	8	3	28	43·2	+4·2	45·4	+1·7	5	0·50	+ 0·18	1·4	- 0·1	18	- 2	Cambridge.
a Felixstowe	*50*	*3, 6*	*32*	*31st*	*47·7*	*39·1*	*43·6*	+ *4·7*	*23*	*8*	—	—	—	—	—	—	*6*	*1·02*	—	*0·8*	—	*11*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	49	4th	35	31st	46·4	39·7	43·2	+ 4·5	18	6	0	31	44·8	+3·8	47·1	+1·3	5	0·72	—	0·4	—	5	—	Clacton.
a Rothamsted	51	6th	36	6th	48·7	39·9	44·5	+ 6·7	26	6	—	—	—	—	—	—	4	0·75	+ 0·28	0·9	- 0·6	12	- 8	Rothamsted.
a Shoeburyness	*51*	*6th*	*37*	*31st*	*48·3*	*41·6*	*45·1*	+ *6·1*	*23*	*1*	*1*	*30*	*45·0*	*+4·7*	—	—	*5*	*0·88*	+ *0·58*	*0·5*	—	*6*	—	*Southend.*
p Tottenham	51	6th	38	6th	49·4	42·6	46·1	+ 7·2	29	0	0	36	—	—	46·9	+1·7	4	1·11	—	0·4	—	5	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	51	1st	32	6th	45·0	39·1	42·2	+ 5·0	14	8	1	29	42·8	+3·5	43·7	+1·3	—	—	—	*0·1*	—	*1*	—	*Huddersfield.*
a Bawtry	55	1st	33	31st	46·7	39·0	43·0	+ 5·2	20	8	0	32	42·3	+3·1	42·9	+1·7	4	1·18	+ 0·63	0·5	—	7	—	Harrogate.
p Buxton	*52*	*1st*	*31*	*31, 6*	*43·7*	*35·9*	*40·0*	+ *4·3*	*5*	*24*	—	—	—	—	—	—	5	0·95	+ 0·56	0·4	- 0·7	5	-10	Worksop.
a, East .. *a* Nottingham ..	52	1st	32	31st	47·1	38·3	42·9	+ 4·9	22	10	*3*	*25*	*41·4*	*+2·7*	*44·7*	*+1·4*	*5i*	*1·97*	+ *0·84*	*0·7*	—	*9*	—	*Buxton.*
p Birmingham, Edgbsn.	52	1st	32	31, 6	47·4	38·4	43·1	+ 5·2	23	10	2	29	41·7	+4·0	43·0	+1·7	5	0·95	+ 0·52	0·4	—	5	—	Nottingham.
a Raunds	53	1st	30	31st	48·3	37·7	43·2	+ 5·7	26	12	2	24	43·7	+3·4	46·3	+1·2	5	0·65	+ 0·17	0·5	—	7	—	Birmingham.
a Oxford	51	4th	37	6th	48·7	41·1	45·1	+ 6·2	25	3	—	—	—	—	—	—	4	0·65	—	*	*	*	*	
											0	29	—	—	—	—	5	0·82	+ 0·40	1·0	- 0·5	13	- 6	Oxford.
a Cheadle	50	1st	29	31, 1	45·8	35·0	40·6	+ 3·5	11	29	1	29	41·8	+3·2	44·0	+1·1	—	—	—	0·3	—	4	—	Sheffield.
p Shrewsbury ..	54	1st	34	1st	50·3	39·3	45·0	+ 5·9	32	8	5	25	—	—	—	—	6	1·27	+ 0·68	—	—	—	—	Cheadle.
b, West .. *a* Hereford											1	27	—	—	—	—	3	0·52	—	*	*	*	*	
a Cirencester	51	31st	33	6th	47·6	38·6	43·3	+ 5·4	23	10	0	31	44·1	—	45·4	—	4	1·18	+ 0·62	0·9	- 0·6	12	- 7	Cirencester.
a Bath	52	6th	39	6th	49·6	44·1	47·0	+ 7·2	35	0	—	—	45·7	+4·3	46·8	+0·8	3	1·03	+ 0·45	0·8	—	10	—	Bath.
5. ENGLAND, S.E.																								
p Kew	52	6th	38	6th	49·6	42·8	46·3	+ 7·1	30	0	0	33	45·2	+4·5	45·6	+0·4	—	—	—	—	—	—	—	Canterbury.
a Marlborough ..	50	6th	36	6th	47·6	41·7	44·8	+ 7·0	21	1	0	31	44·8	+5·0	46·6	+2·0	4	0·92	+ 0·53	0·6	- 0·7	8	- 9	Kew.
a Margate	51	6th	37	6th	48·3	42·0	45·3	+ 5·6	23	0	—	32	—	—	—	—	4	0·93	+ 0·33	0·5	- 0·7	6	-10	Marlborough.
a Wisley, Surrey ..	52	6th	37	6th	48·7	42·6	45·8	+ 6·4	27	0	1	30	44·7	+4·8	46·4	+2·5	5	1·05	+ 0·64	0·3	- 1·2	4	-15	Margate.
a Swarraton	51	6th	37	6th	47·4	41·0	44·3	+ 6·3	20	3	0	31	45·6	+5·3	47·7	+2·4	3	0·68	—	0·6	—	8	—	Wisley.
a Tunbridge Wells ..	50	6th	36	6th	47·4	40·6	44·1	+ 6·0	21	4	4	29	44·4	+4·9	—	—	4	0·88	+ 0·28	0·6	—	8	—	Worthing.
a Dungeness	50	6th	38	31st	48·6	42·0	45·4	+ 5·4	24	0	2	29	44·4	+4·9	—	—	4	0·93	+ 0·33	0·5	- 0·9	6	-12	Tunbridge Wells
p Hastings.. ..	50	6th	37	5, 6	48·6	41·4	45·1	+ 5·0	24	2	—	—	—	—	—	—	3	0·73	+ 0·30	0·6	—	8	—	Littlestone.
p Southampton ..	52	6th	37	6th	49·8	41·9	46·0	+ 6·0	28	0	—	—	—	—	—	—	4	0·82	+ 0·26	*0·7*	- *1·2*	*9*	*-15*	*Hastings.*
a Ventnor	51	6th	40	6th	49·4	43·7	46·7	+ 4·2	33	0	3	29	—	—	—	—	3	0·93	+ 0·31	0·5	- 1·1	6	-14	Southampton.
											—	—	—	—	—	—	3	1·34	+ 0·75	0·8	- 0·9	10	-11	Ventnor.
											0	35	45·5	+3·4	48·0	+1·6	—	—	—	*0·8*	—	*10*	—	*Portsmouth.*
											—	—	46·4	—	47·9	—	—	—	—	0·9	- 0·8	11	-11	Eastbourne.
LONDON.											—	—	45·3	—	46·8	—	—	—	—	*1·3*	—	*16*	—	*Bournemouth.*
a Westminster	*52*	*6th*	*38*	*6th*	*49·7*	*43·0*	*46·5*	+ *7·3*	*32*	*0*	0	35	—	—	47·1	—	—	—	—	*0·6*	- *1·0*	*8*	*-12*	*Brighton.*
a Greenwich	*51*	*6th*	*33*	*6th*	*48·6*	*42·3*	*45·6*	+ *5·7*	*25*	*0*	*0*	*32*	—	—	—	—	*4*	*0·93*	*+0·54*	*0·4*	- *0·1*	*5*	- *1*	*Westminster.*
a Hampstead	*50*	*6th.*	*35*	*6th*	*46·7*	*40·9*	*43·9*	—	*18*	*3*	*0*	*31*	—	—	—	—	*4*	*0·89*	*+0·56*	*0·5*	- *0·7*	*6*	*-10*	*Greenwich.*
a Camden Square ..	*52*	*6th*	*37*	*6th*	*49·3*	*41·6*	*45·6*	—	*27*	*1*	*2*	*28*	—	—	—	—	*4*	*1·22*	—	*0·7*	—	*9*	—	*Hampstead.*
											0	*34*	—	—	—	—	*4*	*1·21*	—	*0·3*	—	*4*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch	52	1st	27	5th	46·4	36·9	41·8	+ 2·2	12	22	—	—	—	—	—	—	7	1·77	+0·63	*	*	*	*	
p Glasgow	52	1st	35	6th	46·0	40·7	43·5	+ 4·7	16	4	1	27	—	—	—	—	7	0·54	- 0·26	0·5	- 0·1	7	- 2	Glasgow.
p Rothesay	52	1st	35	6th	47·4	39·9	43·8	+ 3·9	21	6	—	—	—	—	—	—	7	1·24	+0·20	*	*	*	*	
a Kilmarnock	53	1st	33	4th	46·1	38·6	42·5	+ 2·5	18	10	—	—	—	—	44·2	+1·2	6	0·61	—	*0·7*	—	*10*	—	*Kilmarnock.*
a Colmonell	54	1st	33	4th	47·1	40·1	43·7	+ 3·3	19	5	1	30	—	—	—	—	6	1·03	-0·04	*	*	*	*	
p Dumfries	49	1st	35	5, 6	46·1	39·0	42·7	+ 4·1	18	8	2	30	41·9	—	43·0	—	5	0·41	-0·42	*0·9*	—	*13*	—	*Dumfries.*
p Cally, Gatehouse S	50	1st	30	6th	44·5	36·9	40·9	+ 2·4	7	21	—	—	—	—	—	—	7	0·93	-0·15	*	*	*	*	
b[1] I. OF MAN.																								
p Douglas	49	1, 4, 5	35	6th	47·5	41·5	44·6	+ 3·4	20	1	0	34	—	—	—	—	6	0·89	-0·01	0·7	-0·8	10	-11	Douglas.
											1	28	42·5	+3·6	43·9	+1·6	—	—	—	*0·0*	—	*0*	—	*Burnley.*
											1	28	—	—	—	—	—	—	—	1·2	—	16	—	Hoylake.
7. *a*, ENGLAND, N.W.											0	32	43·5	—	44·2	—	6	0·57	-0·13	0·5	—	7	—	Aspatria.
p Aspatria	50	1st	34	6th	46·8	40·3	43·7	+5·4	19	5	4	21	41·8	+2·9	42·9	+1·3	5	0·62	-0·16	0·8	-0·4	11	- 6	Newton Rigg.
p Newton Rigg	55	1st	33	31st	46·3	38·2	41·5	+4·5	12	25	0	31	—	—	—	—	7	2·05	+1·08	0·0	-1·0	0	-14	Stonyhurst.
p Stonyhurst	50	1st	33	6th	46·0	38·8	42·5	+4·2	17	9	1	29	—	—	—	—	6	1·18	+0·55	0·6	-0·4	8	- 6	Blackpool.
p Blackpool	52	1st	30	6th	46·3	38·5	42·6	+3·5	19	10	—	—	—	—	—	—	5	1·45	+0·89	*0·0*	-*0·6*	*0*	- *8*	*Prestwich.*
p Manchester, Prestwich	50	1st	33	6th	46·4	38·0	42·4	+4·0	20	11	1	29	—	—	—	—	4	1·51	+1·01	*1·3*	—	*18*	—	*Liverpool.*
a Liverpool (Bidston) ..	54	1st	34	31, 1	47·4	38·7	43·2	+3·0	22	9	—	—	—	—	—	—	4	1·11	+0·69	*0·5*	-*0·6*	*7*	- *8*	*Southport.*
a Hawarden Bridge ..	56	1st	32	31st	49·0	38·9	44·2	+3·5	28	9	1	30	42·3	+4·2	43·3	+1·7	4	1·11	+0·69	*0·5*	-*0·6*	*7*	- *8*	*Southport.*
											0	34	43·1	+4·3	45·2	+1·4	—	—	—	*0·0*	—	*0*	—	*Manchester (City).*
b. NORTH WALES.																								
p Llandudno	54	1st	37	6th	49·2	43·0	46·2	(+4·4	29	0	—	—	—	—	—	—	4	1·10	+0·50	0·8	-0·6	11	- 8	Llandudno.
a Holyhead	50	4th	38	6th	47·6	43·1	45·4	+3·1	24	0	—	—	—	—	—	—	5	0·81	+0·07	0·1	—	1	—	Aberdovey.
p Bettws-y-Coed ..	52	6th	35	6th	50·3	42·0	46·3	+5·0	30	0	0	34	44·9	+4·5	46·6	+2·2	7	0·93	—	0·1	—	1	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.																**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average								
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0'0	—	0	—	Aberystwyth.
a Llangammarch Wells	50	4, 6	32	31st	47·0	38·9	43·1	+ 5·5	21	9	1	30	44·7	+3·9	46·8	+1·5	6	2·38	—	0'1	—	1	—	Llangammarch.
a Pembroke	51	3, 6	42	6th	49·7	45·4	47·6	+ 4·3	39	0	—	—	—	—	—	—	5	1·11	+ 0·30	0'4	- 1·2	5	-16	Pembroke.
p Cardiff	50	6th	33	31st	47·6	41·7	44·8	+ 5·2	21	1	1	28	44·7	+4·5	46·1	+1·5	5	1·45	+ 0·55	0·7	—	9	—	[Wells *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	51	31st	39	6th	48·7	43·4	46·2	+ 5·7	29	0	0	34	—	—	—	—	4	0·88	+ 0·20	0·7	—	9	—	*Clifton.*
a Shaftesbury	49	6th	34	6th	46·4	40·0	43·3	+ 5·3	18	6	—	—	—	—	—	—	3	1·39	+ 0·81	—	—	—	—	* *
a Arlington	50	31, 1, 6	38	6th	48·0	42·3	45·3	+ 5·5	23	0	—	—	48·1	—	—	—	5	3·48	+ 2·31	0·7	- 0·9	9	-11	Newquay.
a Cullompton	53	31, 1	35	2nd	50·7	41·0	46·0	+ 5·8	32	3	0	33	46·3	—	—	—	5	1·66	+ 0·89	1·3	0·0	16	0	Cullompton.
a Portland	51	31, 1	42	6th	49·7	46·4	48·1	+ 5·6	43	0	—	—	—	—	—	—	3	0·95	—	*1·5*	—	*19*	—	*Weymouth.*
p Plymouth	53	1st	41	6th	50·9	45·3	48·2	+ 5·5	43	0	0	34	47·5	+4·4	—	—	5	1·25	+ 0·40	0·9	- 0·7	11	- 9	Plymouth.
p Falmouth	53	6th	42	5th	50·0	46·1	48·1	+ 4·0	43	0	—	—	—	—	—	—	4	1·94	+ 0·81	0·8	- 1·0	10	-13	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	52	31st	36	6th	47·1	41·6	44·5	+ 3·0	19	1	—	—	—	—	—	—	5	0·61	- 0·04	*	*	*	*	* *
a Blacksod Point ..	51	31st	35	6th	47·7	43·4	45·6	+ 2·7	25	0	—	—	—	—	—	—	7	1·53	+ 0·33	*	*	*	*	* *
p Markree Castle ..	53	1st	33	6th	48·6	41·1	45·0	+ 5·1	25	3	0	31	44·2	+1·6	45·4	-0·3	5	1·15	+ 0·24	0·5	- 0·7	7	- 9	Markree Castle.
a Birr Castle	52	31st	36	5, 6	49·6	41·0	45·9	+ 5·5	29	3	—	—	—	—	—	—	5	1·21	+ 0·54	*1·0*	*- 0·5*	*14*	*- 6*	*Birr Castle.*
b, East .. *p* Armagh	53	1st	34	5, 6	47·1	40·5	43·9	+ 4·1	20	4	0	32	43·8	+2·9	44·7	+0·5	5	1·03	+ 0·45	0·2	- 1·1	3	-15	Armagh.
a Donaghadee ..	54	1st	35	6th	47·4	41·0	44·3	+ 3·4	20	3	—	—	—	—	—	—	3	0·63	0·00	*	*	*	*	* *
											3	26	42·7	+1·4	48·4	+0·8	—	—	—	—	—	—	—	Trinity Coll.
10. IRELAND, S.											1	26	—	—	—	—	—	—	—	0·7	- 1·1	9	-15	Phœnix Park.
a, East .. *p* Dublin, City	53	1st	37	5th	49·9	42·1	46·2	+ 4·3	29	0	0	35	—	—	—	—	4	1·40	+ 0·92	—	—	—	—	Dublin City.
a Kilkenny	55	1st	34	31st	50·1	38·9	44·7	+ 4·2	32	9	—	—	—	—	—	—	5	1·07	+ 0·31	*	*	*	*	* *
a Waterford	54	6th	36	5, 6	50·1	40·3	45·4	+ 3·6	31	5	—	—	—	—	—	—	5	0·91	- 0·01	*	*	*	*	* *
b, West .. *a* Birr Castle	52	31st	36	5, 6	49·6	41·0	45·5	+ 5·5	29	3	—	—	—	—	—	—	5	1·21	+ 0·54	1·0	- 0·5	14	- 6	Birr Castle.
a Foynes	54	31st	37	2nd	50·3	41·1	45·9	+ 3·6	31	3	—	—	—	—	—	—	6	1·59	+ 0·69	*	*	*	*	* *
a Cahir	55	6th	36	5, 6	51·1	41·6	46·5	+ 4·8	33	1	—	—	—	—	—	—	6	1·01	—	*	*	*	*	* *
a Killarney	54	31st	38	5th	52·0	45·1	48·7	+ 5·9	47	0	—	—	—	—	—	—	4	1·51	+ 0·01	*	*	*	*	* *
a Valencia	53	31, 5, 6	39	5th	51·9	45·1	48·6	+ 3·5	46	0	—	—	—	—	—	—	7	2·18	+ 0·84	0·5	- 1·0	7	-13	Valencia.
a Roche's Point	54	6th	39	6th	50·7	43·7	47·3	+ 3·4	37	0	—	—	—	—	—	—	7	0·80	- 0·30	1·1	—	14	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	52	4, 5, 6	43	6th	51·3	46·4	49·0	+ 2·5	49	0	—	—	—	—	—	—	4	0·77	- 0·03	0·5	- 1·3	6	-17	Scilly.
a Jersey, St. Aubins ..	54	6th	38	2nd	51·3	44·0	47·8	+ 4·5	41	0	—	—	—	—	—	—	3	1·10	+ 0·33	0·3	- 1·8	4	- 2	St. Heliers.
a Guernsey (Villa Carey)	53	1st	43	2nd	50·4	46·0	48·3	+ 4·2	44	0	0	33	47·9	+3·4	50·0	+2·1	4	1·41	+ 0·58	0·9	- 0·6	11	- 8	Guernsey.*

Additional sunshine Means :—*Rhyl, 1·3 hrs. 18°/₀; Tenby, 0·5 hrs. (- 1·2) 6°/₀ (- 16°/₀); Salcombe, 1·2 hrs. 15°/₀; Torquay, 1·8 hrs. (0·0) 23°/₀ (0°/₀); Bognor, 0·7 hrs. 9°/₀; Ramsgate, 0·6 hrs. 8°/₀.*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 6th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick‡	45	44	44·9	+1·1	SCOTLAND, W. ..	Lamlash	48	45	46·7	+0·6
	Kirkwall	45	42	42·9	+1·7		Ballantrae .. .	47	43	45·5	+2·5
	Wick	47	46	46·1	+1·1	ENGLAND, N.W. ..	Port Erin	49	46	48·1	+1·3
SCOTLAND, E. ..	Cromarty	45	40	43·3	+2·9		Newquay	48	48	48·0	+0·8
	Pennan Bay	45	44	44·4	+3·6	ENGLAND, S.W. ..	Scilly	50	48	49·2	—
	Aberdeen, Cove Bay	45	44	44·7	+3·9		Plymouth‡	50	50	50·0	+1·6
SCOTLAND, N.E. ..	Burnmouth, Berwick	42	42	42·0	+0·4		Salcombe	51	50	50·1	+2·5
	Scarborough ..	44	41	42·7	+0·2	IRELAND, N.W. ..	Sheephaven	46	44	45·0	-0·2
ENGLAND, E. ..	Shipwash Lightship	47	44	46·3	+4·2		Teelin	48	44	46·2	+0·7
	Margate‡	46	45	45·1	+3·4	IRELAND, S.W. ..	Cleggan	47	45	46·2	+1·9
ENGLAND, S.E. ..	Eastbourne‡	47	46	46·7	+3·9	IRELAND, E.	Seafield	50	47	48·1	+1·9
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **S** are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the period December 31st to January 6th will be issued with the Report for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIRST WEEK—December 31st, 1911 to January 6th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	53	29	45·4	39·2	42·4	+ 4·6	15	+ 9	8	— 29	7	+ 2	1·70	+0·61	0·6	—0·1	9	— 2
Eastern.																		
1. SCOTLAND, EAST ...	56	28	45·6	37·6	41·7	+ 5·3	10	+ 5	19	— 25	5	+ 1	0·41	—0·19	1·1	0·0	16	+ 1
2. ENGLAND, N.E.	55	31	46·8	38·2	42·7	+ 4·9	21	+ 15	11	— 26	4	0	0·79	+0·37	0·9	—0·2	12	— 3
3. ENGLAND, EAST ...	53	30	47·4	39·4	43·5	+ 6·2	21	+ 13	7	— 35	5	+ 1	0·90	+0·45	0·8	—0·5	11	— 6
4. MIDLAND COUNTIES ...	55	29	47·7	39·1	43·5	+ 6·3	23	+ 14	8	— 34	4	0	0·92	+0·37	0·6	—0·6	8	— 4
5. ENGLAND, S.E.	52	36	48·5	42·0	45·4	+ 6·3	24	+ 12	0	— 32	4	0	0·92	+0·38	0·6	—0·8	8	—10
Western.																		
6. SCOTLAND, WEST ...	54	27	46·4	39·2	42·9	+ 4·2	18	+ 10	8	— 23	6	+ 1	0·93	—0·16	0·6	—0·4	8	— 6
7. ENGLAND, N.W.	56	30	47·5	39·8	43·8	+ 4·7	22	+ 12	6	— 24	5	+ 1	1·13	+0·45	0·5	—0·5	7	— 7
8. ENGLAND, S.W.	53	32	48·9	43·0	46·1	+ 5·1	29	+ 13	0	— 23	5	0	1·65	+0·74	0·6	—0·9	8	—11
9. IRELAND, NORTH ...	54	33	47·9	41·4	44·8	+ 4·6	22	+ 10	2	— 23	5	0	1·03	+0·22	0·4	—0·8	5	—11
10. IRELAND, SOUTH ...	55	34	50·6	42·1	46·5	+ 4·5	32	+ 12	0	— 19	5	0	1·30	+0·25	0·8	—0·7	11	— 9
11. ENGLISH CHANNEL ...	54	38	51·0	45·5	48·4	+ 3·9	45	+ 19	0	— 9	4	— 1	1·09	+0·29	0·6	—1·3	7	—16

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 5 Weeks, December 3rd, 1911 to January 6th, 1912

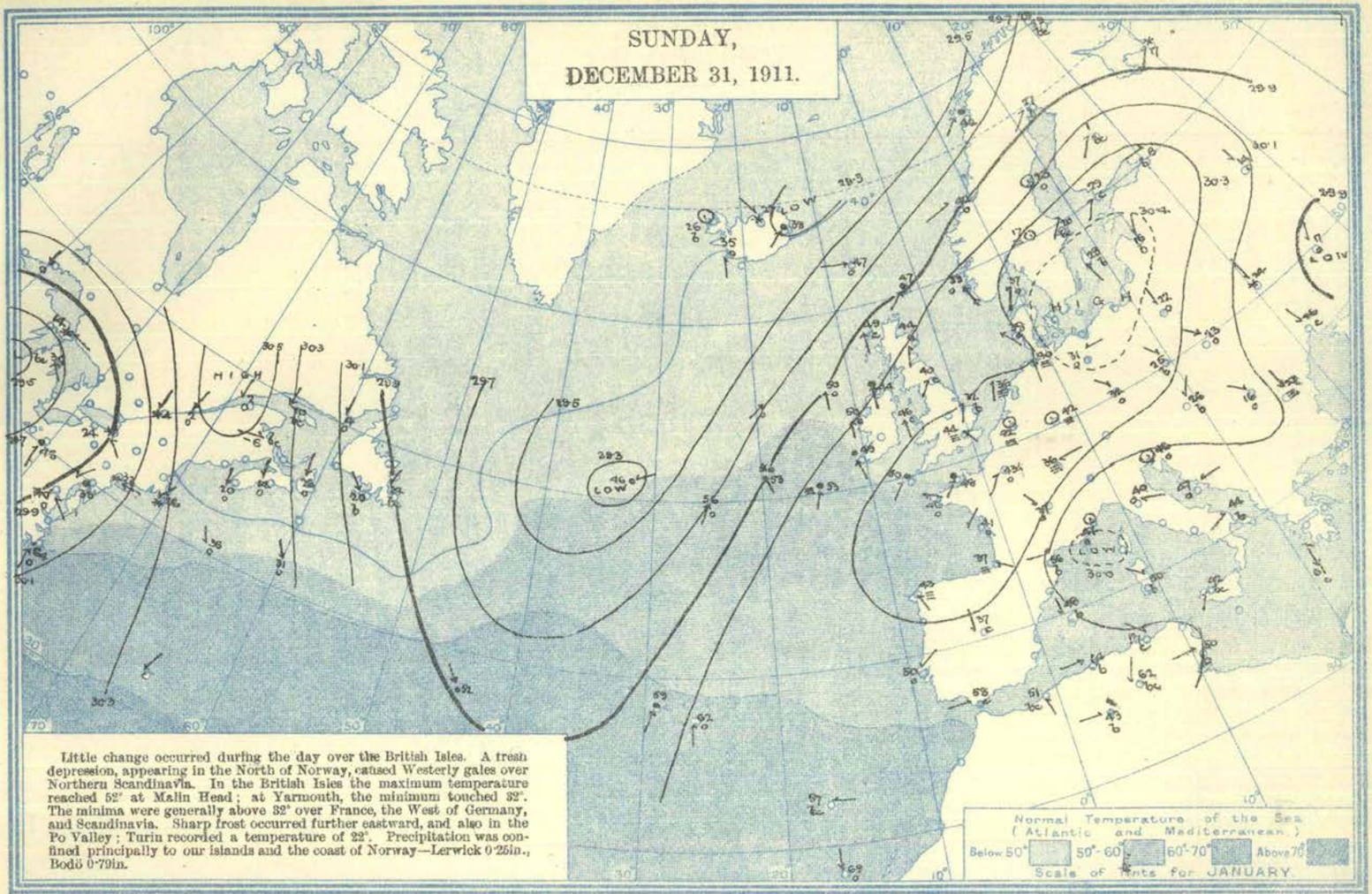
0. SCOTLAND, NORTH ...	57	26	*	*	*	*	68	+ 28	76	— 83	32	+ 6	7.44	+1·05	0·7	+0·1	11	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	56	21	*	*	*	*	47	+ 12	125	— 75	27	+ 6	4·58	+1·34	1·2	+0·2	18	+ 3
2. ENGLAND, N.E	55	29	*	*	*	*	71	+ 30	94	— 68	27	+ 9	4·18	+1·74	1·3	+0·1	18	+ 2
3. ENGLAND, EAST ...	55	27	*	*	*	*	100	+ 53	62	—123	29	+ 9	4·68	+2·49	1·3	—0·1	17	— 1
4. MIDLAND COUNTIES ...	56	26	*	*	*	*	108	+ 57	73	—116	28	+ 9	5·77	+3·10	1·3	+0·1	17	+ 1
5. ENGLAND, S.E.	54	24	*	*	*	*	132	+ 57	36	— 97	28	+ 8	7·14	+4·30	1·4	0·0	18	0
Western.																		
6. SCOTLAND, WEST ...	55	27	*	*	*	*	83	+ 27	61	— 66	33	+ 9	8·38	+2·45	0·9	—0·1	13	— 1
7. ENGLAND, N.W.	58	28	*	*	*	*	102	+ 43	47	— 82	30	+ 9	7·06	+3·37	1·0	0·0	14	0
8. ENGLAND, S.W.	57	25	*	*	*	*	147	+ 51	18	— 75	31	+ 8	9·83	+4·85	1·6	+0·2	20	+ 2
9. IRELAND, NORTH ...	56	28	*	*	*	*	104	+ 37	62	— 50	30	+ 5	6·78	+2·54	1·2	0·0	16	0
10. IRELAND, SOUTH ...	57	26	*	*	*	*	132	+ 21	51	— 34	32	+ 8	8·64	+3·47	1·4	—0·1	18	— 2
11. ENGLISH CHANNEL ...	57	35	*	*	*	*	223	+ 68	0	— 28	31	+ 6	7·73	+3·43	1·6	—0·3	20	— 3

THE YEAR.—Aggregates, &c., for the Period of 1 Week, December 31st, 1911 to January 6th, 1912.

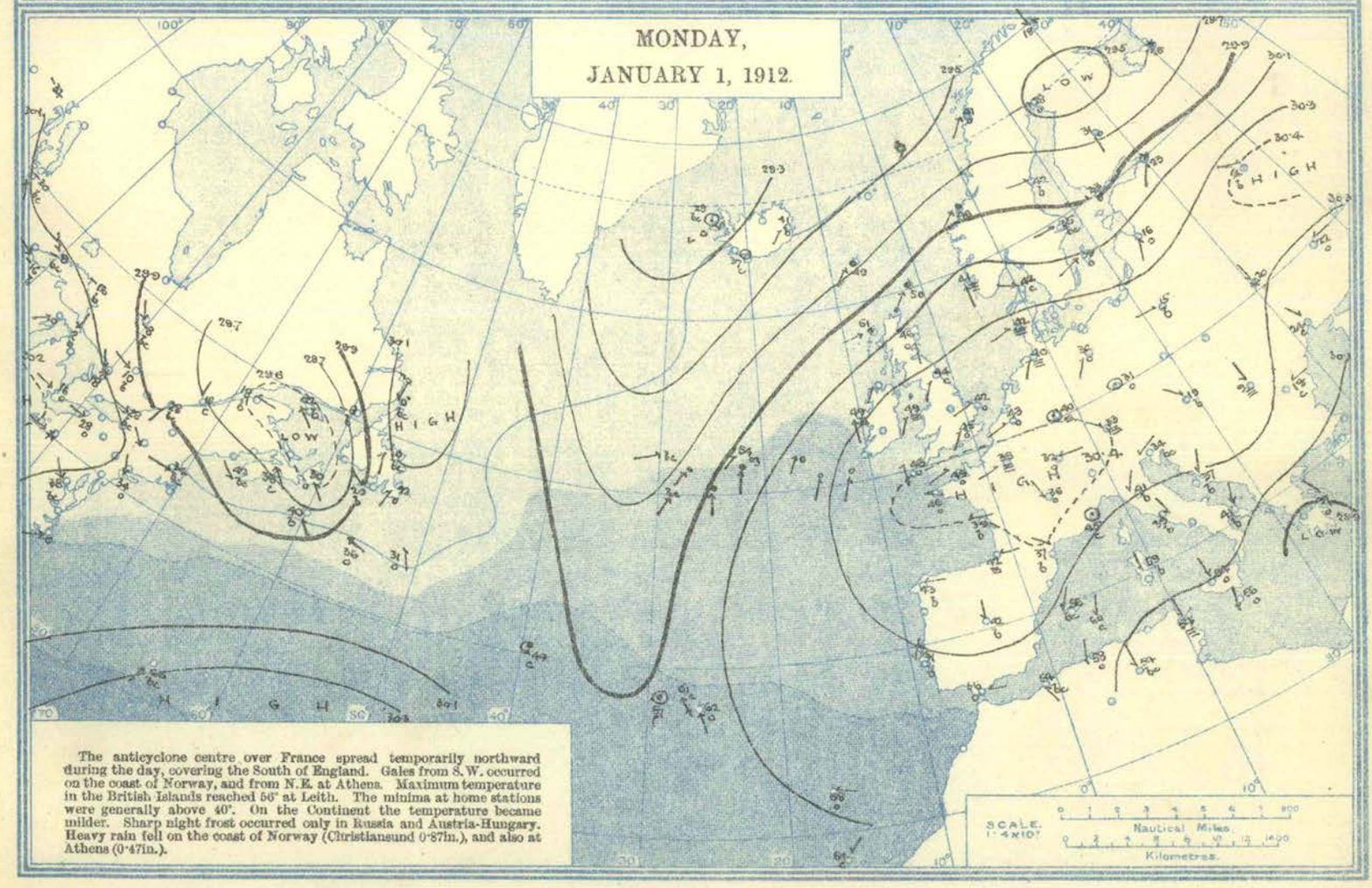
0. SCOTLAND, NORTH ...	53	29	*	*	*	*	15	+ 9	8	— 29	7	+ 2	1·70	+0·61	0·6	—0·1	9	— 2
Eastern.																		
1. SCOTLAND. EAST ...	56	28	*	*	*	*	10	+ 5	19	— 25	5	+ 1	0·41	—0·19	1·1	0·0	16	+ 1
2. ENGLAND, N.E.	55	31	*	*	*	*	21	+ 15	11	— 26	4	0	0·79	+0·37	0·9	—0·2	12	— 3
3. ENGLAND, EAST ...	53	30	*	*	*	*	21	+ 13	7	— 35	5	+ 1	0·90	+0·45	0·8	—0·5	11	— 6
4. MIDLAND COUNTIES ...	55	29	*	*	*	*	23	+ 14	8	— 34	4	0	0·92	+0·37	0·6	—0·6	8	— 4
5. ENGLAND, S.E.	52	36	*	*	*	*	24	+ 12	0	— 32	4	0	0·92	+0·38	0·6	—0·8	8	—10
Western.																		
6. SCOTLAND, WEST ...	54	27	*	*	*	*	18	+ 10	8	— 23	6	+ 1	0·93	—0·16	0·6	—0·4	8	— 6
7. ENGLAND, N.W.	56	30	*	*	*	*	22	+ 12	6	— 24	5	+ 1	1·13	+0·45	0·5	—0·5	7	— 7
8. ENGLAND, S.W.	53	32	*	*	*	*	29	+ 13	0	— 23	5	0	1·65	+0·74	0·6	—0·9	8	—11
9. IRELAND, NORTH ...	54	33	*	*	*	*	22	+ 10	2	— 23	5	0	1·03	+0·22	0·4	—0·8	5	—11
10. IRELAND, SOUTH ...	55	34	*	*	*	*	32	+ 12	0	— 19	5	0	1·30	+0·25	0·8	—0·7	11	— 9
11. ENGLISH CHANNEL ...	54	38	*	*	*	*	45	+ 19	0	— 9	4	— 1	1·09	+0·29	0·6	—1·3	10	—16

NOTES ON TABLE IV.

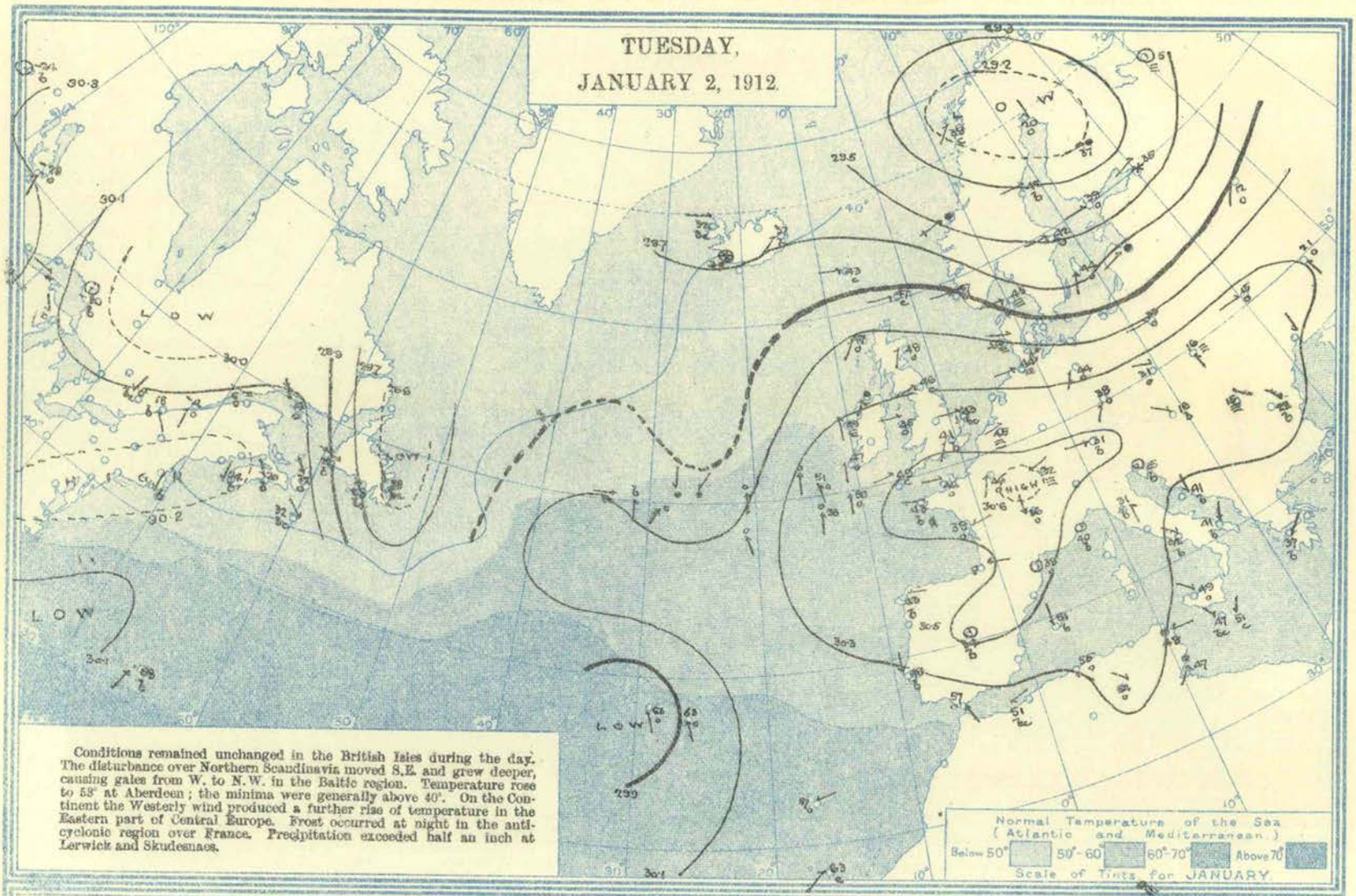
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



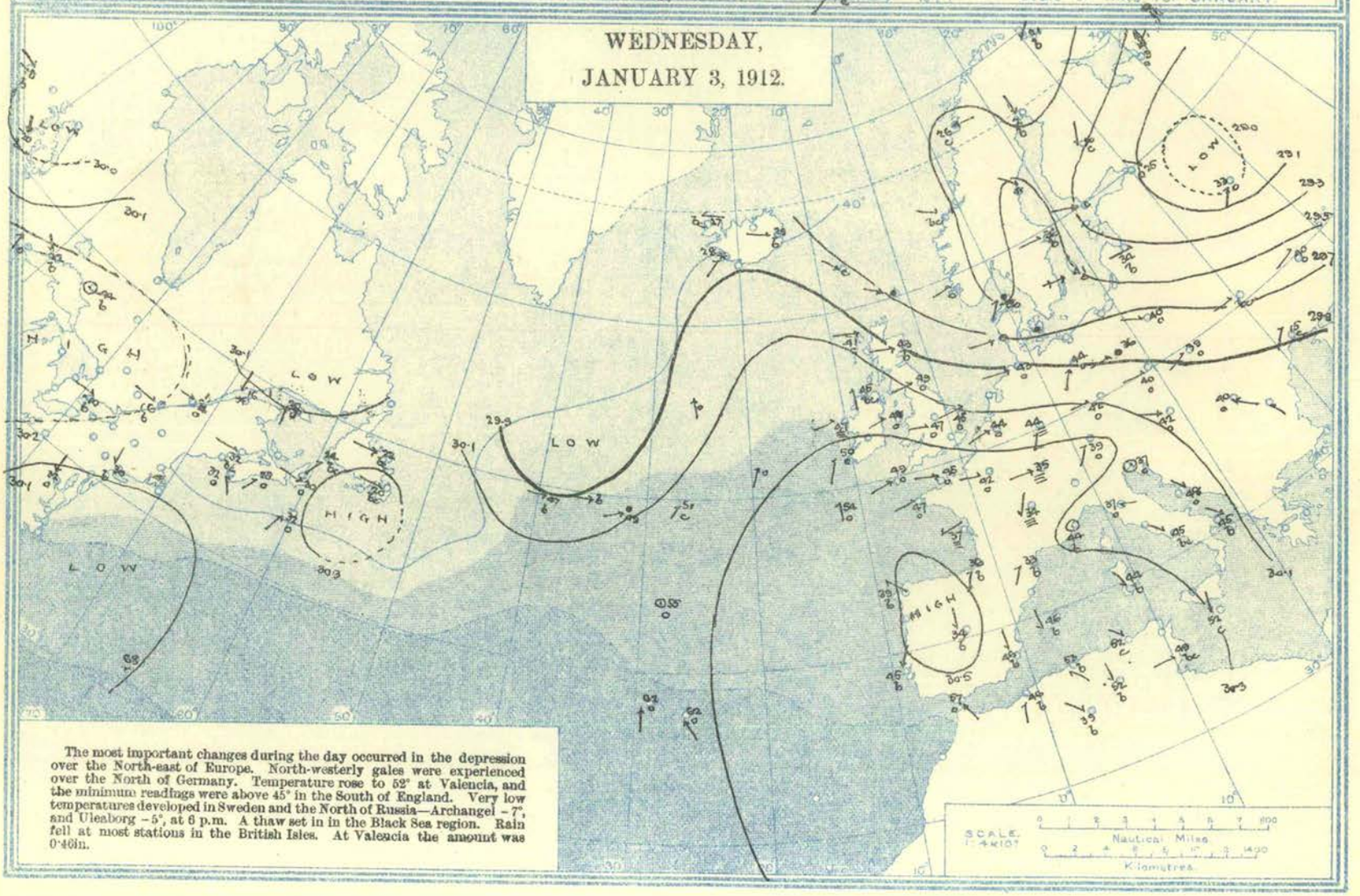
Little change occurred during the day over the British Isles. A fresh depression, appearing in the North of Norway, caused Westerly gales over Northern Scandinavia. In the British Isles the maximum temperature reached 52° at Malin Head; at Yarmouth, the minimum touched 32°. The minima were generally above 32° over France, the West of Germany, and Scandinavia. Sharp frost occurred further eastward, and also in the Po Valley; Turin recorded a temperature of 22°. Precipitation was confined principally to our islands and the coast of Norway—Lerwick 0·25in., Bodö 0·79in.



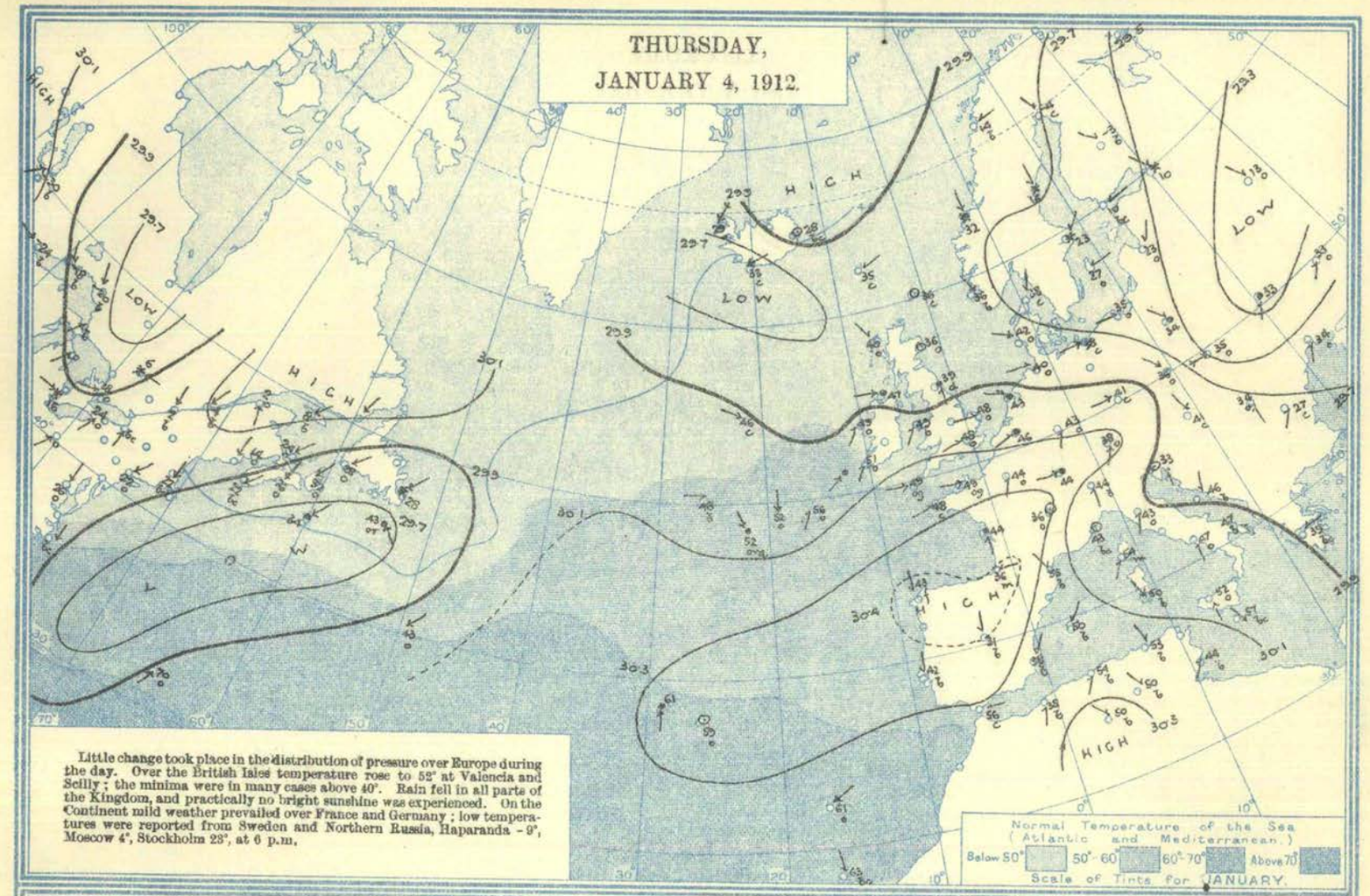
The anticyclone centre over France spread temporarily northward during the day, covering the South of England. Gales from S.W. occurred on the coast of Norway, and from N.E. at Athens. Maximum temperature in the British Islands reached 56° at Leith. The minima at home stations were generally above 40°. On the Continent the temperature became milder. Sharp night frost occurred only in Russia and Austria-Hungary. Heavy rain fell on the coast of Norway (Christiansund 0·87in.), and also at Athens (0·47in.).



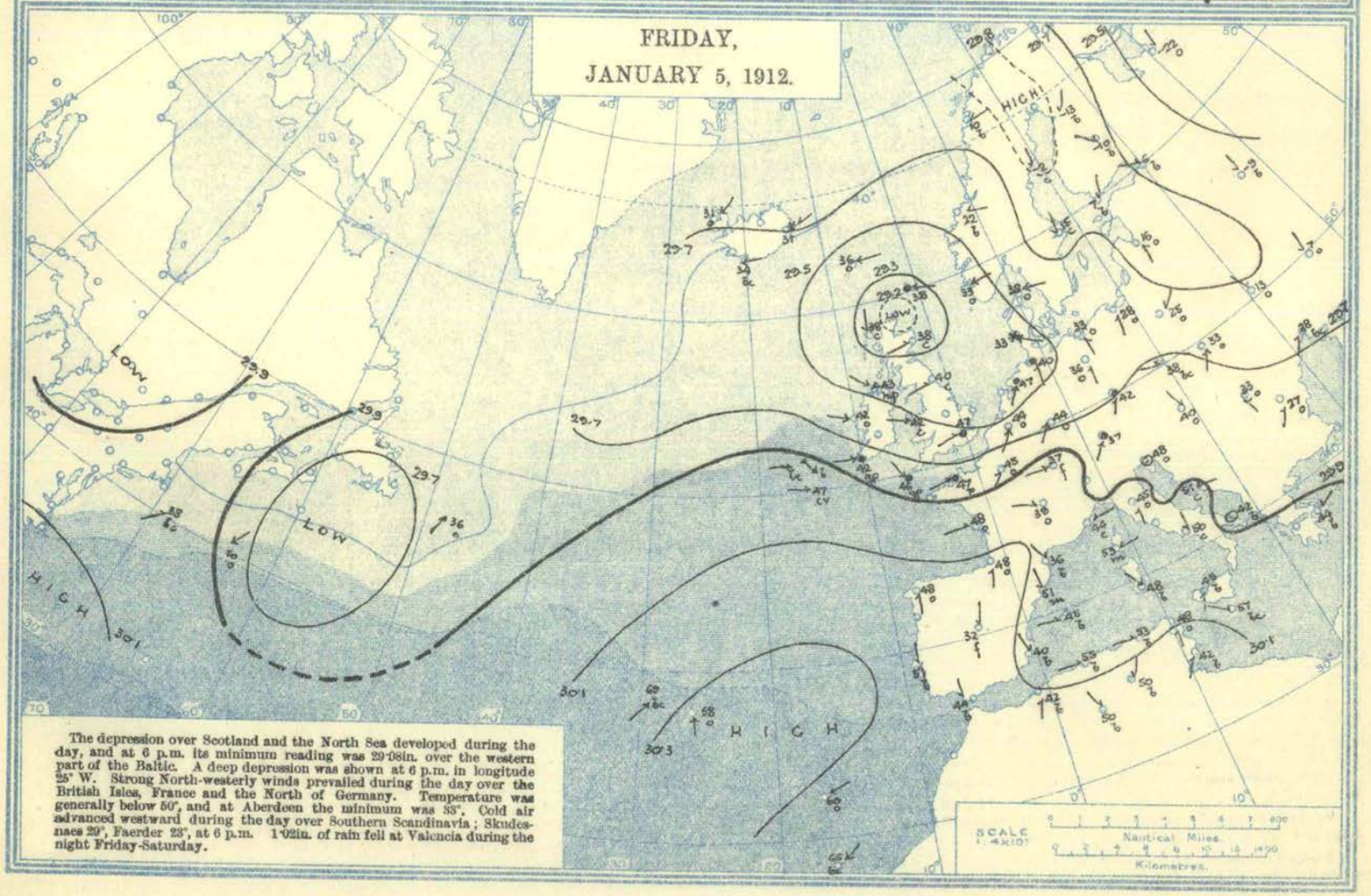
Conditions remained unchanged in the British Isles during the day. The disturbance over Northern Scandinavia moved S.E. and grew deeper, causing gales from W. to N.W. in the Baltic region. Temperature rose to 53° at Aberdeen; the minima were generally above 40°. On the Continent the Westerly wind produced a further rise of temperature in the Eastern part of Central Europe. Frost occurred at night in the anti-cyclonic region over France. Precipitation exceeded half an inch at Lerwick and Skudesnaes.



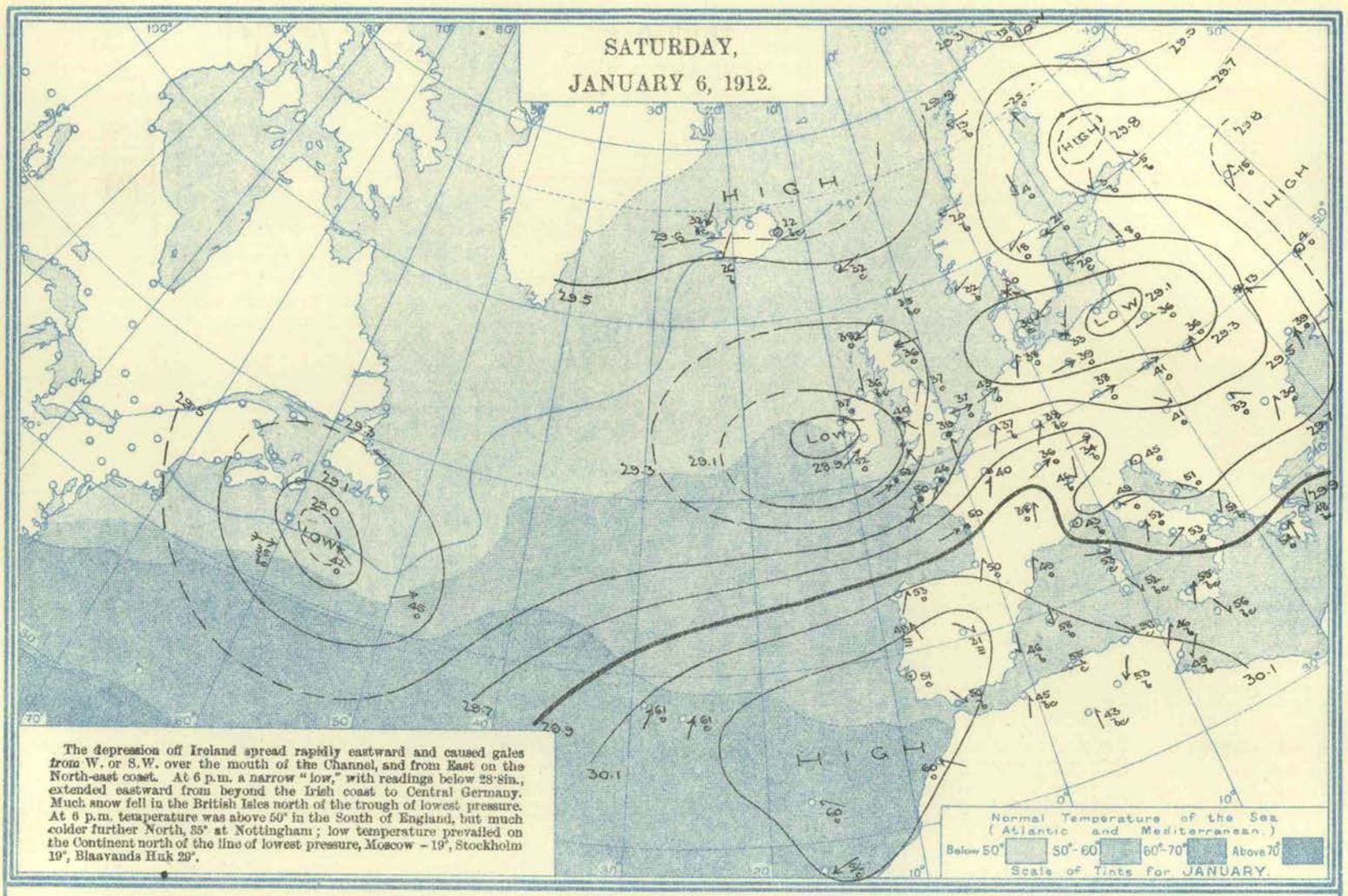
The most important changes during the day occurred in the depression over the North-east of Europe. North-westerly gales were experienced over the North of Germany. Temperature rose to 52° at Valencia, and the minimum readings were above 45° in the South of England. Very low temperatures developed in Sweden and the North of Russia—Archangel −7°, and Uleaborg −5°, at 6 p.m. A thaw set in in the Black Sea region. Rain fell at most stations in the British Isles. At Valencia the amount was 0·46in.



Little change took place in the distribution of pressure over Europe during the day. Over the British Isles temperature rose to 52° at Valencia and Scilly; the minima were in many cases above 40°. Rain fell in all parts of the Kingdom, and practically no bright sunshine was experienced. On the Continent mild weather prevailed over France and Germany; low temperatures were reported from Sweden and Northern Russia, Haparanda −9°, Moscow 4°, Stockholm 23°, at 6 p.m.

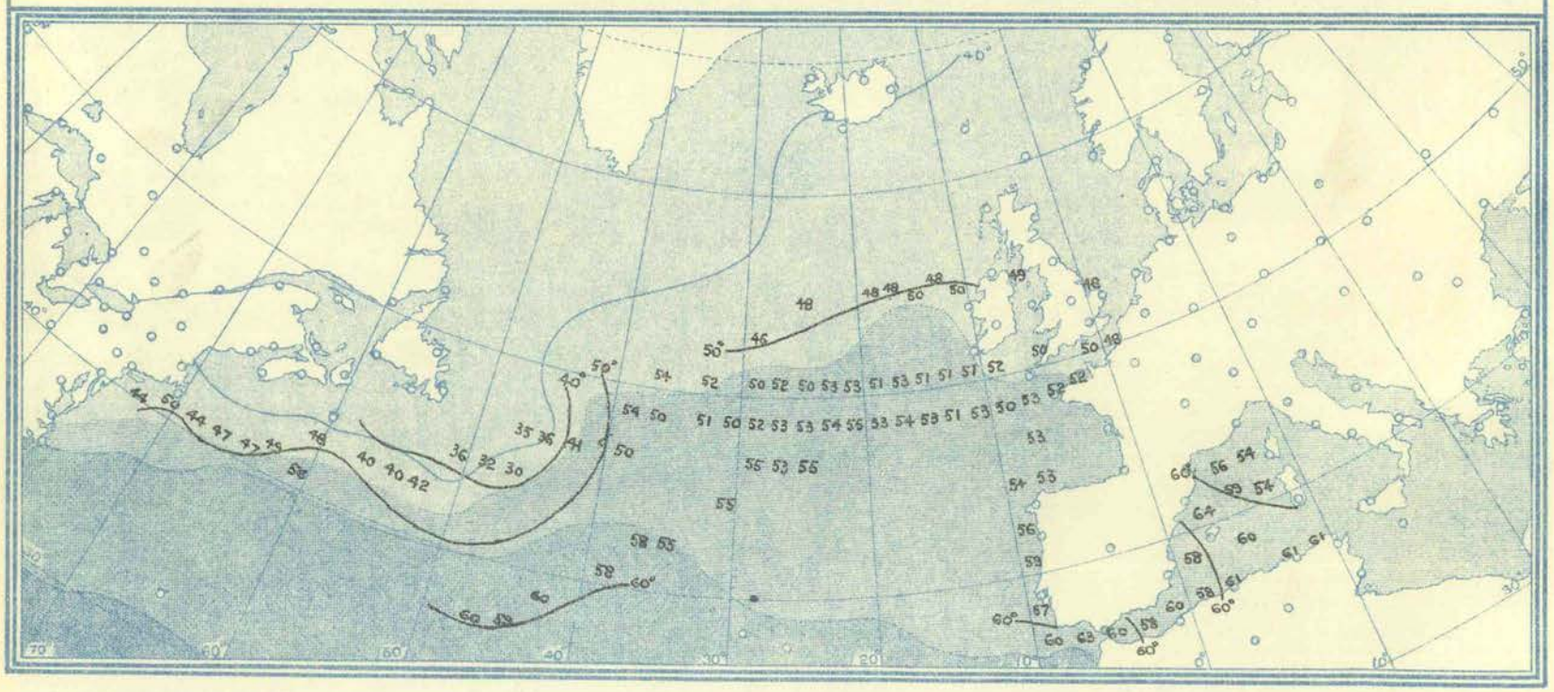


The depression over Scotland and the North Sea developed during the day, and at 6 p.m. its minimum reading was 29·08in. over the western part of the Baltic. A deep depression was shown at 6 p.m. in longitude 25° W. Strong North-westerly winds prevailed during the day over the British Isles, France and the North of Germany. Temperature was generally below 50°, and at Aberdeen the minimum was 33°. Cold air advanced westward during the day over Southern Scandinavia; Skudesnaes 29°, Faerder 23°, at 6 p.m. 1·02in. of rain fell at Valencia during the night Friday-Saturday.



The depression off Ireland spread rapidly eastward and caused gales from W. or S.W. over the mouth of the Channel, and from East on the North-east coast. At 6 p.m. a narrow "low," with readings below 28·8in., extended eastward from beyond the Irish coast to Central Germany. Much snow fell in the British Isles north of the trough of lowest pressure. At 6 p.m. temperature was above 50° in the South of England, but much colder further North, 35° at Nottingham; low temperature prevailed on the Continent north of the line of lowest pressure, Moscow −19°, Stockholm 19°, Blaavands Huk 29°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 6th January, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* No. 2. SECOND WEEK, SUNDAY, JANUARY 7TH, 1912 TO SATURDAY, JANUARY 13TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. A generally unsettled condition prevailed, with much snow and sleet early in the period in the more northern districts, and occasional rain subsequently. In the east and south of England rain was less frequent than elsewhere.

Temperature was lower than during preceding weeks, but was again above the average except in England North-East. The highest of the maxima were recorded at most stations either on the 9th or 13th, and were as high as 53° or 54° in most districts. In England North-East, however, there was no higher reading than 48°. The lowest of the minima occurred on the 8th at almost every station, and ranged from 13° in Scotland East, and 23° in England North-East to 28° in Ireland South, and to 35° in the English Channel. The lowest grass readings reported were 10° at Balmoral, 12° at Buxton, 15° at Glasgow and Newton Rigg, and 16° at Harrogate.

Mean Temperature of the Sea. On nearly all parts of the coast the water was warmer than during the corresponding week of last year, and at most stations it exceeded the average. The means for the week ranged from 49° at Scilly and Salcombe to about 44° at Cromarty and Burnmouth, and 40° at Scarborough.

Rainfall was above the average generally, but below it in Scotland North and the English Channel, and about equal to it in England South-East. In the northern parts of the Kingdom much of the precipitation on Sunday and Monday was in the form of snow. At Crathes as much as 1·78 in. of snow fell on the latter day, followed by 1·06 in. of rain on Wednesday. In the neighbourhood of Crieff the depth of snow on Monday was 10 in.

Bright Sunshine was below the normal in the eastern districts, but above it over Ireland, England North-West and Scotland West and North. The percentage of the possible duration ranged from 23 in Ireland South, and 21 in Ireland North and Scotland West, to 11 or 10 over all the eastern and south-eastern counties of England.

Barometer and Wind. At the beginning of the week the wind had shifted to the Northward over the greater part of these Islands in the rear of a depression over Holland, but during the remainder of the period it was again between South-East and South-West, and often strong in force. Gales were experienced on several occasions on the western and northern coasts, the most widespread being on the 8th and 10th. By the end of the week a very large and intense anticyclonic system extended from Russia to the Baltic and Denmark, and the centre of the Atlantic disturbance lay far to the North-Westward of these Islands.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 7.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Moderate	Heavy	Moderate	Moderate	Heavy	Moderate	Heavy	Moderate	Moderate	Very heavy	Very heavy	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Abundant	Abundant.	Moderate	Abundant.	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 6 weeks from Dec. 3rd, 1911.	Warmth ...	2 * 0	2 * 0	3 * 0	3 * 0	3 * 0	3 * 1	3 * 1	3 * 0	4 * 0	4 * 1	3 * 1	5 * 0
	Rainfall ...	2 * 0	4 * 0	3 * 0	5 * 0	5 * 0	5 * 0	5 * 0	5 * 0	4 * 0	5 * 0	5 * 0	5 * 0
	Sunshine ...	2 * 1	2 * 1	1 * 0	2 * 3	2 * 3	1 * 4	2 * 2	2 * 1	1 * 2	3 * 2	1 * 2	1 * 3

PAST SEASONS.

WINTER, 1910-11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

(22591—24.) Wt. 113—4. 450. 1/12. D & S. Gp. 30. Sch. 13.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.														**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*47*	*13th*	*27*	*7th*	*40·4*	*35·9*	*38·2*	—	*0*	*37*			*36·8*	*-1·0*										*Baltasound.*
a, Islands .. *a* Lerwick ..	27	13th	28	7, 8	42·1	35·0	38·7	- 0·6	0	26							5	*0·44*	—	*0·6*	—	*10*	—	
a Stornoway ..	51	13th	27	8th	44·7	37·4	41·2	+ 2·0	8	19							6	0·66	—	0·7	- 0·2	11	- 3	Deerness.
a Castlebay, Barra Isd. ..	*49*	*9, 11-13*	*33*	*9th*	*46·4*	*39·7*	*43·2*	+ *1·8*	*18*	*6*							6	1·16	- 0·05	0·3	- 0·6	5	- 9	Stornoway.
																	5	*1·66*	—	*1·6*	—	*23*	—	*Castlebay.*
a Wick	50	10th	29	8th	44·0	36·0	40·2	+ 2·0	6	24							7	0·38	- 0·22					
b, Main- *p* Strathpeffer ..	54	13th	24	8th	44·3	34·3	39·5	+ 2·6	6	30							4	0·47	- 0·26	1·6	+ 0·6	24	+ 9	Strathpeffer.
land. *p* Glencarron ..	54	13th	22	7th	43·1	35·6	39·5	+ 2·8	3	24							5	0·83	- 1·49					
p Fort Augustus..	52	13th	24	8th	44·1	35·1	39·8	+ 2·0	6	27							5	0·50	- 0·77	0·8	- 0·2	12	- 3	Fort Augustus.
p Fort William ..	54	13th	23	8th	44·1	36·4	40·4	+ 0·9	6	22							6	2·04	- 0·13					
1. SCOTLAND, E.																								
p Gordon Castle.. S	53	13th	26	8th	43·6	35·6	39·8	+ 1·5	4	25	2	17	36·1	+0·6	39·0	+0·3	—	—	—	0·6	—	9	—	Crathes S.
a Nairn	52	13th	24	8, 9	44·4	32·7	38·8	+ 1·4	7	36							4	0·87	+ 0·36	*0·8*	—	*12*	—	*Gordon Castle.*
a Aberdeen ..	47	13th	26	9th	42·9	35·4	39·3	+ 1·6	3	25							2	0·12	- 0·31	1·8	—	27	—	Nairn.
a Balmoral ..	49	13th	13	8th	42·7	30·1	36·7	+ 2·4	2	44	3	10					7	1·09	+ 0·54	0·7	- 0·8	10	-12	Aberdeen.
p Crieff	49	13th	20	8th	40·0	32·0	36·2	- 1·0	0	41					41·4	+1·3	6	2·04	+ 1·11	1·0	—	14	—	Balruddery.
a Leith	53	13th	25	8th	45·1	34·7	40·1	+ 0·9	9	29							4	0·21	- 0·16					
p West Linton .. S	48	13th	14	8th	39·6	30·0	35·0	- 1·4	0	49							5	0·53	—	*0·9*	—	*13*	—	*West Linton.*
p Marchmont .. S	47	13th	22	8th	40·3	32·0	36·3	- 0·3	0	40	4	18	35·7	-1·0			5	0·56	+ 0·03	0·7	- 0·6	10	- 8	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	48	12th	23	8th	43·3	31·3	37·5	- 0·7	4	40	4	21	36·2	-0·5	40·8	+1·1	6	0·86	+ 0·32	0·9	—	12	—	Cockle Park.
a Shields	47	13th	25	8, 9	43·1	32·4	38·0	- 0·9	3	36							4	0·33	- 0·07	*0·3*	- *0·5*	*4*	- 7	*Newcastle.*
p Durham	46	13th	24	8th	40·5	32·4	36·6	- 0·5	0	38	4	17					3	0·28	0·00	0·6	- 0·8	8	-11	Durham.
a, North .. *p* Rounton																								Rounton.
a West Witton ..	*48*	*13th*	*17*	*8th*	*42·4*	*30·4*	*36·6*	—	*1*	*42*	*4*	*17*	*37·6*	—	*41·5*	—	*6*	*0·98*	—				—	*West Witton.*
p Scarborough ..	45	13th	29	8th	41·7	35·3	38·6	+ 0·1	0	24							6	0·65	+ 0·19	0·3	—	4	—	Scarborough.
p York	47	13th	25	8th	41·4	33·9	37·8	- 0·2	0	29			39·4	+0·9	42·9	+0·9	6	0·63	+ 0·26	0·5	- 0·4	7	- 6	York.
a Spurn Head	44	10th	30	8th	41·6	35·0	38·4	- 0·3	0	25	3	20	38·6	+1·3	44·0	+0·9	5	0·36	+ 0·05	*0·4*	—	*5*	—	*Hull.*
b, South .. *a* Lincoln .. .	48	9th	27	8th	43·9	33·5	38·9	+ 1·8	5	32			37·6	+0·9	42·9	+0·9	6	0·54	+ 0·15					Lincoln.
a Fulbeck	48	9, 13	26	8th	44·4	32·9	38·9	+ 1·7	7	35	4	22	39·1	+0·2	45·0	+4·1	3	0·57	+ 0·18	1·1	—	15	—	Rauceby.
																				0·9	—	12	—	Skegness.
3. ENGLAND, E.											2	27	39·8	+2·0	44·2	+1·8	—	—	—	*0·9*	—	*13*	—	*Lowestoft.*
p Cromer	49	9th	30	8th	43·1	33·7	38·6	+ 1·5	3	31							7	0·50	—	0·7	—	9	—	Cromer.
p Hillington	48	9th	26	8th	42·7	32·9	38·0	+ 0·9	2	34	6	19					5	0·51	+ 0·04	1·2	- 0·3	16	- 4	Hillington.
a, North .. *a* Yarmouth ..	49	9th	29	9th	44·3	35·4	40·0	+ 2·2	6	26			40·6	+2·4	45·4	+2·3	3	0·24	- 0·16	0·9	—	12	—	Yarmouth
a Norwich	48	9th	28	8th	44·0	34·1	39·3	+ 1·8	6	31	5	21	39·1	—			5	0·39	—	*0·9*	—	*12*	—	*Norwich.*
p Geldeston	51	9th	29	8th	44·4	35·0	39·9	+ 1·7	7	28							3	0·23	- 0·14	0·9	- 0·8	12	-11	Geldeston.
p Cambridge	51	9th	26	8th	45·6	33·4	39·7	+ 2·0	10	34	6	22	40·4	+2·2	45·3	+2·4	4	0·44	+ 0·13	1·3	- 0·2	17	- 3	Cambridge.
a Felixstowe ..	*49*	*9th*	*30*	*8, 9*	*44·9*	*35·1*	*40·2*	+ *1·7*	*8*	*28*							*5*	*0·38*	—	*1·2*	—	*16*	—	*Felixstowe.*
a Clacton-on-Sea ..	49	9th	31	8, 9	45·0	36·0	40·7	+ 2·4	8	25	3	22	43·0	+2·9	47·0	+2·1	3	0·30	—	0·8	—	10	—	Clacton.
b, South .. *a* Rothamsted ..	52	9th	31	8, 9	45·4	33·1	39·5	+ 2·1	10	35							5	0·70	+ 0·23	0·7	- 0·8	9	-10	Rothamsted.
a Shoeburyness ..	*51*	*9th*	*29*	*8th*	*45·7*	*36·0*	*41·0*	+ *2·3*	*10*	*25*	*2*	*26*	*42·4*	*+3·3*			*5*	*0·35*	+ *0·07*	*1·1*	—	*14*	—	*Southend.*
p Tottenham	51	7, 9	33	8th	46·4	38·4	42·6	+ 3·8	19	10	1	30			46·8	+2·4	2	0·45	—	0·6	—	8	—	Tottenham.
4. MIDLAND COUNTIES.											1	16	39·9	+0·3	43·7	+1·7	—	—	—	*0·7*	—	*9*	—	*Huddersfield.*
a Harrogate	46	13th	23	8th	40·0	32·1	36·2	- 0·9	0	41	3	17	38·7	0·0	42·2	+1·6	5	0·94	+ 0·42	1·0	—	14	—	Harrogate.
a Bawtry	46	13th	25	8th	43·0	32·6	38·0	+ 0·3	3	35							4	0·49	+ 0·12	1·0	- 0·1	13	- 1	Worksop.
p Buxton	*44*	*13th*	*16*	*8th*	*39·4*	*30·5*	*35·1*	- *0·4*	*0*	*48*	*4*	*12*	*38·0*	*-0·3*	*44·3*	*+1·5*	*5*	*1·13*	+ *0·03*	*0·8*	—	*11*	—	*Buxton.*
a, East .. *a* Nottingham	48	9th	25	8th	44·0	32·0	38·2	+ 0·4	6	38	3	20	38·3	+1·4	42·4	+1·9	5	0·59	+ 0·17	0·7	—	9	—	Nottingham.
p Birmingham, Edgbsn.	48	9th	28	8th	42·9	35·7	39·4	+ 1·6	3	23	2	19	41·1	+1·3	46·0	+1·4	5	0·50	+ 0·04	0·7	—	9	—	Birmingham.
a Raunds	50	9th	25	8th	44·4	31·6	38·3	+ 1·1	7	40	5	21	40·9	—			3	0·68	—					
a Oxford	51	9th	28	8th	46·0	33·3	39·9	+ 1·1	11	35	1	23					4	0·66	+ 0·26	1·2	- 0·3	15	- 4	Oxford.
											2	19	37·9	0·0	43·7	+1·6	—	—	—	0·8	—	11	—	Sheffield.
a Cheadle	46	13th	27	8th	42·4	32·9	37·8	+ 1·1	1	33	7	20					6	0·66	+ 0·09					Cheadle.
p Shrewsbury	50	9, 13	25	8th	46·7	32·6	39·9	+ 1·3	13	38	2	25					6	0·57	—					
b, West .. *a* Hereford ..	50	9, 13	26	8th	46·6	34·2	40·7	+ 2·5	13	33	4	20					6	0·63	+ 0·13					
a Cirencester ..	49	10th	26	8th	45·3	31·9	38·9	+ 1·4	9	40	2	25	41·9	—	45·2	—	5	0·86	+ 0·33	0·5	- 1·0	6	-13	Cirencester.
a Bath	53	13th	28	8th	49·7	34·4	42·4	+ 2·8	35	21							5	0·48	- 0·07	0·8	—	10	—	Bath.
5. ENGLAND, S.E.											1	21	43·2	+3·4	44·9	+0·5	—	—	—					Canterbury.
p Kew	51	7, 9	30	8th	46·7	36·9	42·0	+ 3·1	13	14	5	21	41·9	+3·0	46·6	+2·5	3	0·39	+ 0·01	0·7	- 0·6	9	- 8	Kew.
a Marlborough	49	9th	26	8th	45·9	31·6	39·0	+ 1·4	11	41	5	22					6	0·77	+ 0·20	0·8	- 0·5	10	- 6	Marlborough.
a Margate	51	9th	31	8th	46·6	37·6	42·3	+ 2·9	21	12			42·3	+2·5	45·6	+2·8	2	0·35	- 0·03	1·1	- 0·4	14	- 5	Margate.
a Wisley, Surrey ..	51	9th	28	8th	47·1	34·7	41·2	+ 1·9	14	31	6	18	41·6	+2·2	46·1	+2·9	3	0·32	—	1·2	—	15	—	Wisley
a Swarraton	50	9th	26	8th	46·2	32·2	39·5	+ 1·8	12	39	3	23	43·2	+3·9	47·3	+2·6	4	0·49	- 0·09	0·5	—	6	—	Worthing.
a Tunbridge Wells ..	50	9th	26	8th	46·2	34·3	40·5	+ 2·8	12	32	4	17	41·8	+3·6			3	0·34	- 0·26	1·1	- 0·4	14	- 5	Tunbridge Wells
a Dungeness	50	8, 9, 10	29	8th	47·9	35·3	41·9	+ 2·3	17	30							2	0·50	+ 0·08	0·8	—	10	—	Littlestone.
p Hastings..	51	9th	31	8th	47·5	38·6	43·2	+ 3·6	23	10	2	23	42·8	—	46·8	—	5	0·54	0·00	*0·8*	—	*10*	—	*Hastings.*
p Southampton	53	9th	29	8th	48·5	38·5	43·7	+ 3·8	27	10	3	22					3	0·64	+ 0·05	0·7	- 0·9	9	-11	Southampton.
a Ventnor	52	9th	32	8th	48·6	41·1	45·0	+ 2·9	25	3							4	0·56	- 0·01	0·7	- 1·1	9	-14	Ventnor.
											3	24	43·2	+2·0	47·4	+1·9	—	—	—	*0·6*	—	*8*	—	*Portsmouth.*
													44·7	—	47·7	—	—	—	—	0·6	- 1·2	8	-15	Eastbourne.
													43·4	—	45·8	—	—	—	—	*0·8*	—	*10*	—	*Bournemouth.*
LONDON.											3	26			46·5	—	—	—	—	*0·5*	- *1·2*	*6*	-*18*	*Brighton.*
a Westminster	*52*	*9th*	*31*	*8th*	*47·7*	*36·7*	*42·4*	+ *3·4*	*25*	*15*	*3*	*27*					*3*	*0·33*	- *0·05*	*0·6*	+ *0·1*	*8*	+ *1*	*Westminster.*
a Greenwich ..	*51*	*9, 10*	*29*	*8th*	*47·6*	*34·9*	*41·5*	+ *2·3*	*16*	*31*	*5*	*26*					*3*	*0·30*	- *0·07*	*1·2*	*0·0*	*15*	*0*	*Greenwich.*
a Hampstead	*50*	*9th*	*27*	*8th*	*44·6*	*36·9*	*40·9*	—	*7*	*21*	*3*	*17*					*4*	*0·42*	—	*0·6*	—	*8*	—	*Hampstead.*
a Camden Square ..	*50*	*9th*	*30*	*8th*	*46·1*	*35·9*	*41·2*	—	*11*	*26*	? 2	*29*					*3*	*0·43*	—	*0·5*	—	*6*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	49	13th	21	8th	42·6	32·7	37·9	- 1·4	2	35							6	2·08	+ 0·98					
p Glasgow	50	13th	25	8th	42·1	35·6	39·0	+ 0·4	0	24	2	15	—	—	—	—	5	1·49	+ 0·73	1·0	+ 0·4	14	+ 6	Glasgow.
p Rothesay	49	13th	26	8th	43·1	36·7	40·0	+ 0·3	3	20					43·8	+1·3	6	1·69	+ 0·69					
a Kilmarnock ..	50	13th	21	8th	44·3	33·3	39·0	- 0·9	6	33							6	0·95	—	*1·3*	—	*18*	—	*Kilmarnock.*
a Colmonell ..	50	11, 13	22	8th	45·1	35·3	40·4	+ 0·3	9	27	2	19					6	2·80	+ 1·77					
p Dumfries ..	48	10, 11, 13	22	8th	43·7	34·7	39·4	+ 1·0	5	28	2	19	37·6	—	42·4	—	6	1·44	+ 0·65	*0·9*	—	*12*	—	*Dumfries.*
p Cally, Gatehouse	50	11, 13	22	8th	45·0	35·9	40·6	+ 2·5	8	25							6	1·98	+ 0·94					
b I. OF MAN.																								
p Douglas	50	11th	29	8th	46·4	38·6	42·7	+ 1·9	19	10	1	24					6	1·44	+ 0·61	1·9	+ 0·4	26	+ 5	Douglas.
											2	17	38·0	0·0	43·8	+1·9	—	—	—	*1·0*	—	*13*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											2	25					—	—	—	1·5	—	20	—	Hoylake.
p Aspatria	50	13th	24	8th	44·4	35·3	40·0	+ 1·9	7	23	2	15	39·7	—	44·3	—	5	0·77	+ 0·11	1·2	—	16	—	Aspatria.
p Newton Rigg	47	13th	21	8th	41·9	32·2	37·2	+ 0·3	0	34	5	15	38·5	+0·1	42·2	+1·2	6	0·95	+ 0·19	1·3	+ 0·1	18	+ 1	Newton Rigg.
p Stonyhurst	49	13th	24	8th	43·0	35·3	39·3	+ 1·1	3	25	3	19					6	0·98	+ 0·02	0·9	- 0·1	12	- 1	Stonyhurst.
p Blackpool	50	13th	24	8th	44·4	35·1	39·9	+ 1·0	7	27							6	0·91	+ 0·29	1·3	+ 0·2	17	+ 3	Blackpool.
p Manchester, Prestwich	49	13th	25	8, 9	43·4	33·3	38·6	+ 0·3	4	33	2	20					5	1·06	+ 0·33	*0·7*	+ *0·1*	*9*	+ *1*	*Prestwich.*
a Liverpool (Bidston) ..	50	13th	30	8, 9	46·3	35·6	41·2	+ 1·2	12	27							5	0·41	- 0·09	*1·3*	—	*17*	—	*Liverpool.*
a Hawarden Bridge ..	52	11, 13	29	8th	48·9	35·6	42·5	+ 2·1	30	18	3	18	37·9	+0·4	42·6	+1·7	4	0·43	+ 0·03	*1·4*	+ *0·2*	*18*	+ *3*	*Southport.*
											1	25	40·5	+2·4	45·1	+2·0	—	—	—	*0·5*	—	*7*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	54	13th	30	8th	47·7	40·1	44·1	+ 2·6	23	5							3	0·45	- 0·13	1·8	+ 0·4	24	+ 5	Llandudno.
a Holyhead	50	10, 11	32	8th	48·1	39·6	44·0	+ 1·9	24	7							5	0·72	+ 0·02	1·3	—	17	—	Aberdovey.
p Bettws-y-Coed ..																								Bettws-y-Coed.

For notes see opposite page

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.																**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	50	10, 13	22	8th	47·4	34·0	41·0	+ 3·7	15	34	2	13	42·3	+2·3	46·6	+1·8	7	1·62	—	0·5	—	16	—	Aberystwyth.
a Pembroke	52	9th	35	8th	49·6	43·6	46·7	+ 3·9	33	0	*	*	*	*	*	*	5	1·14	+ 0·35	1·8	+ 0·2	23	+ 2	Llangammarch. Pembroke.[Wells
p Cardiff	50	9th	28	8th	47·0	37·0	42·2	+ 2·6	22	14	2	23	42·4	+3·3	46·0	+2·1	7	1·42	+ 0·56	*0·7*	—	*9*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	51	8, 13	30	8th	48·6	36·7	42·9	+ 2·9	29	15	1	25	*	*	*	*	5	0·51	− 0·15	*0·8*	—	*10*	—	*Clifton.*
a Shaftesbury	49	8, 9	28	8th	45·4	36·4	41·1	+ 3·3	10	23	*	*	42·2	—	*	*	5	0·36	− 0·22	*	*	*	*	* *
a Arlington	50	8, 13	30	8th	48·0	38·9	43·6	+ 4·1	24	9	*	*	46·7	—	*	*	5	1·17	+ 0·07	1·6	0·0	20	0	Newquay.
a Cullompton	52	8, 11	28	8th	49·5	35·6	42·8	+ 3·0	32	18	1	26	40·3	—	*	*	7	1·09	+ 0·35	0·7	− 0·7	9	− 9	Cullompton.
a Portland	52	8th	35	8th	49·7	43·3	46·6	+ 4·5	32	0	*	*	*	*	*	*	5	0·44	—	*0·9*	—	*11*	—	*Weymouth.*
p Plymouth	54	11th	34	8th	51·9	40·6	46·5	+ 4·2	37	4	5	25	45·6	+3·6	*	*	4	1·54	+ 0·74	1·5	− 0·1	19	− 1	Plymouth.
p Falmouth	52	7, 8	39	7th	50·9	42·9	47·1	+ 3·4	36	0	*	*	*	*	*	*	5	1·49	+ 0·45	1·9	+ 0·1	24	+ 1	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	49	10, 13	30	8th	45·7	36·1	41·1	− 0·2	10	25	*	*	*	*	*	*	5	0·56	− 0·07	*	*	*	*	* *
a Blacksod Point ..	54	10th	35	8th	49·3	40·6	45·1	+ 2·3	28	4	*	*	*	*	*	*	7	3·11	+ 1·96	*	*	*	*	* *
p Markree Castle ..	52	10th	25	7th	48·4	34·9	41·9	+ 2·3	18	31	2	21	42·0	+0·4	45·5	+0·2	6	1·63	+ 0·75	1·9	+ 0·7	26	+10	Markree Castle.
a Birr Castle	51	8, 10, 13	30	8th	48·4	38·3	43·6	+ 3·9	27	10	*	*	*	*	*	*	6	1·31	+ 0·65	*1·7*	*+ 0·1*	*22*	*+ 1*	*Birr Castle.*
b, East .. *p* Armagh	51	13th	25	8th	46·5	36·4	41·7	+ 2·1	13	25	3	18	41·3	+1·0	*40·6	−3·3	7	1·61	+ 1·03	1·3	− 0·1	18	− 1	Armagh.
a Donaghadee ..	49	10,11,13	30	8th	46·4	37·4	42·1	+ 1·5	20	13	*	*	*	*	*	*	4	1·40	+ 0·80	*	*	*	*	* *
10. IRELAND, S.											4	21	42·5	+1·7	45·4	+1·1	*	*	*	*	*	*	*	Trinity Coll.
											2	21	*	*	*	*	*	*	*	2·1	+ 0·3	28	+ 4	Phœnix Park.
a, East .. *p* Dublin, City	53	13th	33	7, 8	49·2	39·6	44·6	+ 3·0	28	7	2	29	*	*	*	*	5	0·89	+ 0·40	*	*	*	*	Dublin City.
a Kilkenny	51	8, 10	28	8th	48·9	37·0	43·2	+ 2·9	29	14	*	*	*	*	*	*	7	1·92	+ 1·15	*	*	*	*	* *
a Waterford	51	8, 10, 11	31	8th	49·0	39·1	44·3	+ 2·9	28	8	*	*	*	*	*	*	6	2·79	+ 1·89	*	*	*	*	* *
a Birr Castle	51	8, 10, 13	30	8th	48·4	38·3	43·6	+ 3·9	27	10	*	*	*	*	*	*	6	1·31	+ 0·65	1·7	+ 0·1	22	+ 1	Birr Castle.
a Foynes	54	8th	31	8th	50·7	39·4	45·3	+ 3·1	34	7	*	*	*	*	*	*	7	1·54	+ 0·68	*	*	*	*	* *
b, West .. *a* Cahir	51	8, 10	31	8th	49·3	37·4	43·6	+ 2·2	31	13	*	*	*	*	*	*	7	1·66	—	*	*	*	*	* *
a Killarney	53	8, 10, 13	36	8th	51·4	40·6	46·2	+ 3·7	35	4	*	*	*	*	*	*	7	2·45	+ 1·00	*	*	*	*	* *
a Valencia	53	8th	40	8th	51·3	43·7	47·7	+ 2·9	40	0	*	*	*	*	*	*	7	2·81	+ 1·51	1·9	+ 0·4	25	+ 5	Valencia.
a Roche's Point	51	8th	35	8th	49·3	42·9	46·2	+ 2·6	29	0	*	*	*	*	*	*	7	2·54	+ 1·47	1·6	—	20	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	53	8, 10	42	8th	51·7	45·9	48·9	+ 2·8	48	0	*	*	*	*	*	*	6	0·66	− 0·08	2·0	+ 0·2	25	+ 3	Scilly.
a Jersey, St. Aubins ..	53	9th	35	8th	50·1	42·6	46·5	+ 3·7	32	0	*	*	*	*	*	*	2	0·24	− 0·49	0·9	− 1·2	11	−15	St. Heliers.
a Guernsey (Villa Carey)	52	8, 9	41	5th	50·1	44·6	47·5	+ 3·8	39	0	0	34	47·0	+3·1	49·2	+2·1	4	0·49	− 0·31	0·6	− 1·0	7	−12	Guernsey.*

Additional sunshine Means :—*Bognor, 0·7 hrs. 9 %; Ramsgate, 1·6 hrs. 20 %; Rhyl, 1·8 hrs. 24 %; Salcombe, 1·5 hrs. 19 %; Tenby, 1·4 hrs. (− 0·4) 18 % (− 5 %); Torquay, 1·1 hrs. (−0·7) 14 % (−9 %).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 13th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	—	—	—	—	SCOTLAND, W. ..	Lamlash	45	44	44·3	−1·3
	Kirkwall	43	41	41·9	+1·1		Ballantrae .. .	47	41	44·1	+1·6
	Wick	—	—	—	—	ENGLAND, N.W. ..	Port Erin	48	44	46·4	+0·1
SCOTLAND, E. ..	Cromarty	43	41	41·4	+1·3		Newquay	48	48	48·0	+1·4
	Pennan Bay	44	44	44·0	+3·7	ENGLAND, S.W. ..	Scilly	50	48	49·0	—
	Aberdeen, Cove Bay	45	45	45·0	+5·2		Plymouth‡	49	48	48·5	+0·6
SCOTLAND, N.E. ..	Burnmouth, Berwick	42	40	40·9	0·0		Salcombe	50	46	48·8	+1·8
	Scarborough ..	43	38	40·2	−1·6	IRELAND, N.W. ..	Sheephaven	45	44	44·3	−0·7
ENGLAND, E. ..	Shipwash Lightship	47	44	45·5	+4·7		Teelin	45	43	43·9	−0·9
	Margate‡	46	45	45·2	+4·6	IRELAND, S.W. ..	Cleggan	46	44	44·8	+0·7
ENGLAND, S.E. ..	Eastbourne‡	46	44	45·6	+3·4		Seafield	48	46	47·1	+1·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **S** are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SECOND WEEK—January 7th to January 13th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	54	22	43·8	35·7	39·9	+ 1·9	5	— 1	24	— 12	6	+ 1	0·86	—0·28	0·9	+0·1	14	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	53	13	42·3	32·8	37·8	+ 1·0	1	— 4	34	— 9	5	+ 2	0·92	+0·38	1·0	—0·1	15	— 2
2. ENGLAND, N.E.	48	23	42·5	33·3	38·1	0·0	1	— 6	32	— 3	5	+ 1	0·54	+0·08	0·7	—0·4	10	— 6
3. ENGLAND, EAST ...	52	26	44·5	34·7	39·8	+ 2·5	7	0	29	— 12	4	0	0·42	+0·03	0·9	—0·5	11	— 6
4. MIDLAND COUNTIES ...	53	23	44·6	33·0	39·1	+ 1·7	7	— 2	35	— 6	5	+ 1	0·64	+0·18	0·8	—0·5	10	— 6
5. ENGLAND, S.E.	53	26	47·1	36·1	41·8	+ 2·7	14	+ 3	26	— 6	4	+ 1	0·49	—0·01	0·8	—0·7	10	— 9
Western.																		
6. SCOTLAND, WEST ...	50	21	44·0	35·4	39·9	+ 0·7	6	— 2	26	— 3	6	+ 2	1·73	+0·75	1·5	+0·4	21	+ 5
7. ENGLAND, N.W.	54	21	45·5	35·9	40·9	+ 1·6	10	+ 1	25	— 4	5	+ 1	0·74	+0·12	1·4	+0·3	19	+ 4
8. ENGLAND, S.W.	54	22	48·8	38·9	44·1	+ 3·1	28	+ 12	9	— 14	6	+ 3	1·08	+0·30	1·2	—0·3	15	— 4
9. IRELAND, NORTH ...	54	25	47·5	37·3	42·6	+ 2·2	24	+ 12	13	— 12	6	+ 2	1·60	+0·86	1·6	+0·3	21	+ 4
10. IRELAND, SOUTH ...	54	28	49·7	39·8	45·0	+ 2·9	30	+ 11	6	— 13	7	+ 3	1·99	+1·08	1·8	+0·2	23	+ 3
11. ENGLISH CHANNEL ...	53	35	50·6	44·4	47·6	+ 3·4	39	+ 15	0	— 9	4	0	0·46	—0·23	1·2	—0·8	15	—10

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 6 Weeks, December 3rd, 1911, to January 13th, 1912.

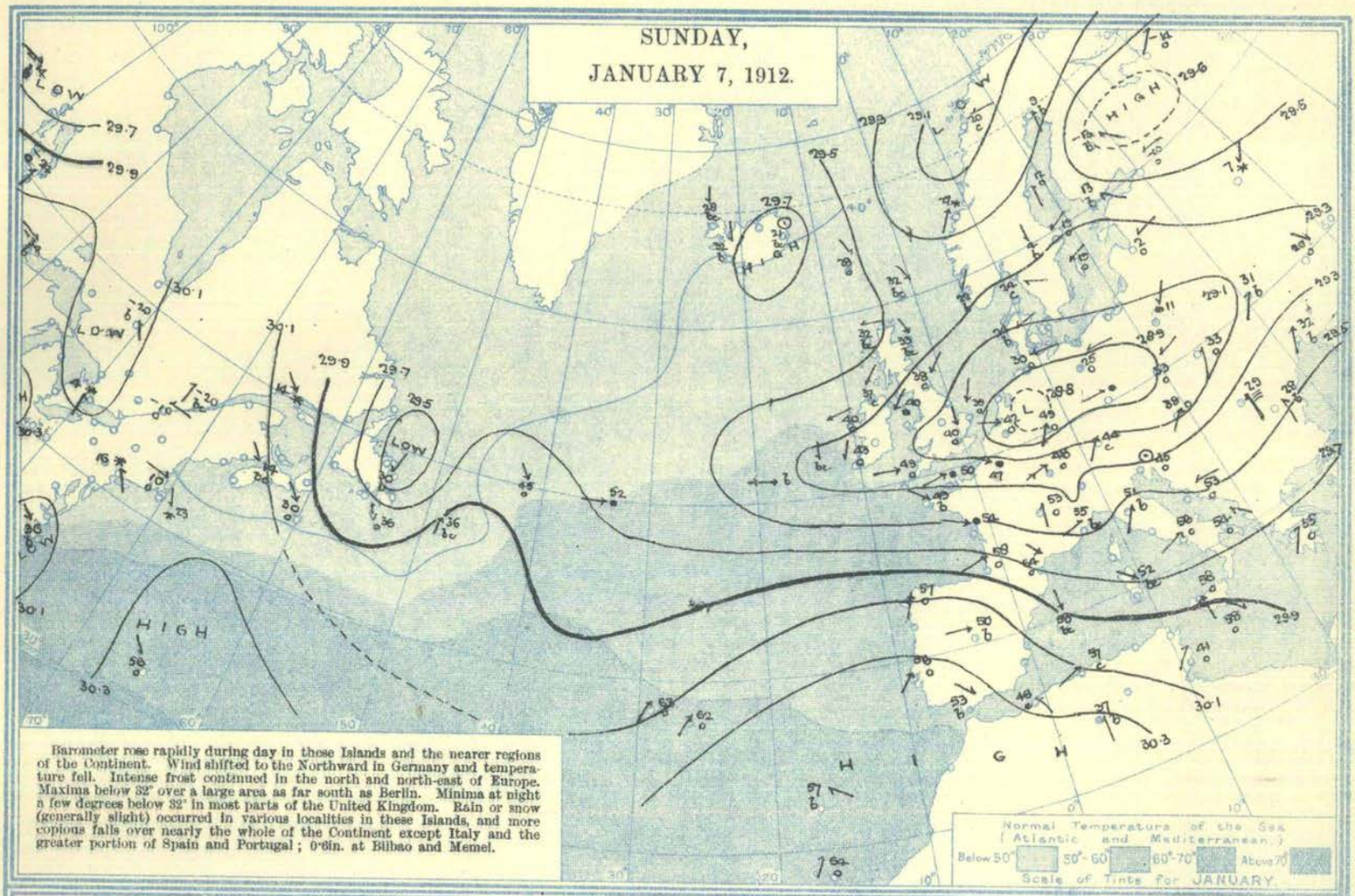
0. SCOTLAND, NORTH ...	57	22	*	*	*	*	73	+ 27	100	— 95	38	+ 7	8·30	+0·77	0·8	+0·2	13	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	56	13	*	*	*	*	48	+ 8	159	— 84	32	+ 8	5·50	+1·72	1·1	+0·1	16	+ 2
2. ENGLAND, N.E	55	23	*	*	*	*	72	+ 24	126	— 71	32	+10	4·66	+1 76	1·2	0·0	16	0
3. ENGLAND, EAST ...	55	26	*	*	*	*	107	+ 53	91	—135	33	+ 9	5·10	+2·52	1·3	—0·1	17	— 1
4. MIDLAND COUNTIES ...	56	23	*	*	*	*	115	+ 55	108	—122	33	+10	6·41	+3·28	1·3	+0·1	17	+ 1
5. ENGLAND, S.E.	54	24	*	*	*	*	146	+ 60	62	—103	32	+ 9	7·64	+4·29	1·3	—0·1	17	— 1
Western.																		
6. SCOTLAND, WEST ...	55	21	*	*	*	*	89	+ 25	87	— 69	39	+11	10·11	+3·20	1·0	0·0	14	0
7. ENGLAND, N.W.	58	21	*	*	*	*	112	+ 44	72	— 86	35	+10	7·80	+3·49	1·1	0·0	15	0
8. ENGLAND, S.W.	57	22	*	*	*	*	175	+ 63	27	— 89	37	+11	10·91	+5·15	1·5	0·0	19	0
9. IRELAND, NORTH ...	56	25	*	*	*	*	128	+ 49	75	— 62	36	+ 7	8·38	+3·40	1·2	0·0	16	0
10. IRELAND, SOUTH ...	57	26	*	*	*	*	162	+ 32	57	— 47	39	+11	10·63	+4·55	1·5	0·0	20	0
11. ENGLISH CHANNEL ...	57	35	*	*	*	*	262	+ 83	0	— 37	35	+ 6	8·19	+3·20	1·5	—0·4	19	— 5

THE YEAR.—Aggregates, &c., for the Period of 2 Weeks, December 31st, 1911, to January 13th, 1912.

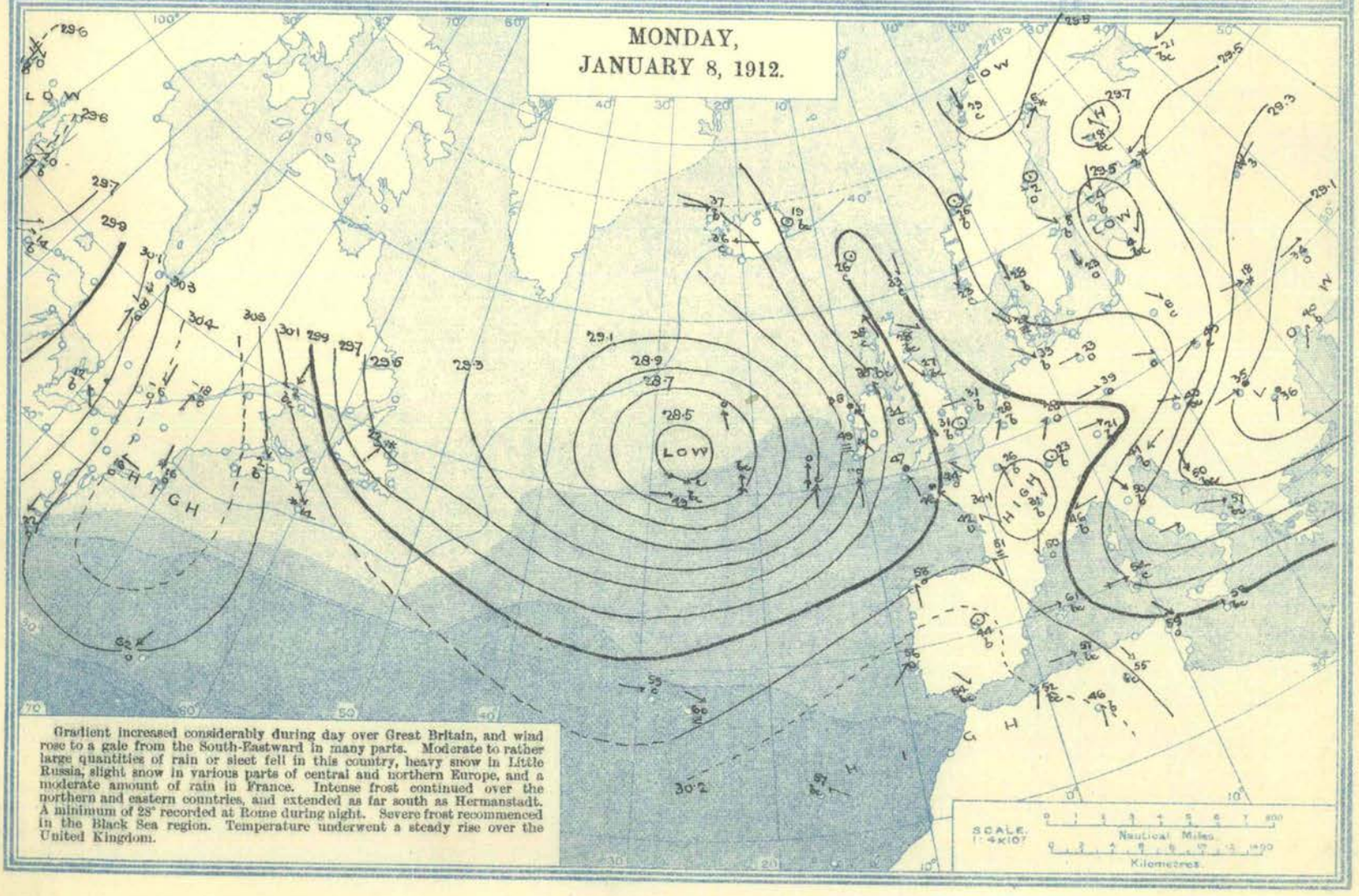
0. SCOTLAND, NORTH ...	54	22	*	*	*	*	20	+ 8	32	— 41	13	+ 3	2·56	+0·33	0·8	+0·1	12	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	56	13	*	*	*	*	11	+ 1	53	— 34	10	+ 3	1·33	+0·19	1·1	+0·1	16	+ 1
2. ENGLAND, N.E.	55	23	*	*	*	*	22	+ 9	43	— 29	9	+ 1	1·27	+0·39	0·8	—0·3	11	— 4
3. ENGLAND, EAST ...	53	26	*	*	*	*	28	+ 13	36	— 47	9	+ 1	1·32	+0·48	0·9	—0·5	12	— 7
4. MIDLAND COUNTIES ...	55	23	*	*	*	*	30	+ 12	43	— 40	9	+ 1	1·56	+0·55	0·7	—0·5	9	— 7
5. ENGLAND, S.E.	53	26	*	*	*	*	38	+ 15	26	— 38	8	+ 1	1·41	+0·37	0·7	—0·7	9	— 9
Western.																		
6. SCOTLAND, WEST ...	54	21	*	*	*	*	24	+ 8	34	— 26	12	+ 3	2·66	+0·59	1·1	+0·1	15	+ 2
7. ENGLAND, N.W.	56	21	*	*	*	*	32	+ 13	31	— 28	10	+ 2	1·87	+0·57	1·0	0·0	13	0
8. ENGLAND, S.W.	54	22	*	*	*	*	57	+ 25	9	— 37	11	+ 3	2·73	+1·04	0·9	—0·6	11	— 8
9. IRELAND, NORTH ...	54	25	*	*	*	*	46	+ 22	15	— 35	11	+ 2	2·63	+1·08	1·0	—0·2	14	— 3
10. IRELAND, SOUTH ...	55	28	*	*	*	*	62	+ 23	6	— 32	12	+ 3	3·29	+1·33	1·3	—0·2	17	— 3
11. ENGLISH CHANNEL ...	54	35	*	*	*	*	84	+ 34	0	— 18	8	— 1	1·55	+0·06	0·9	—1·0	11	—12

NOTES ON TABLE IV.

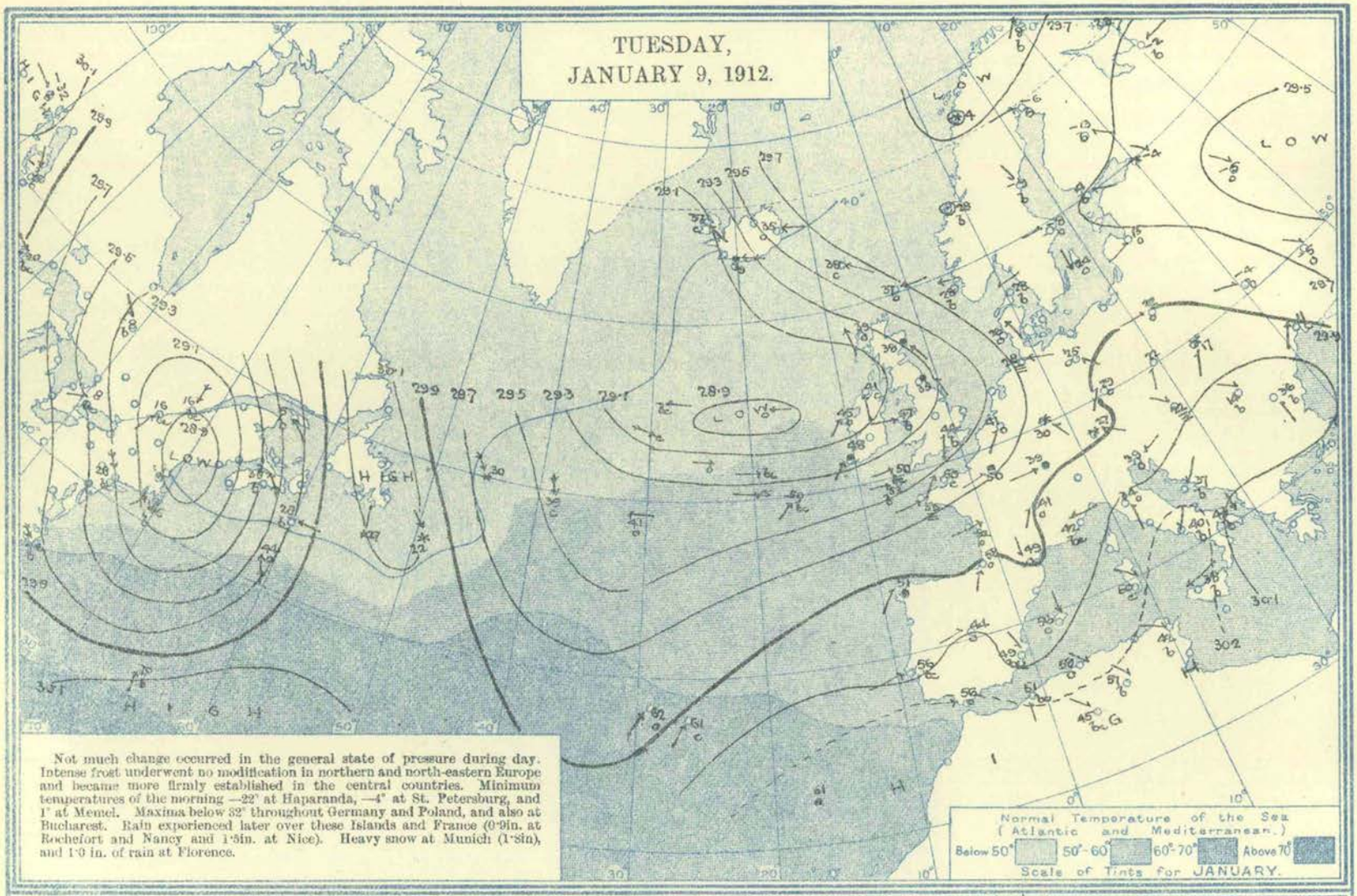
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



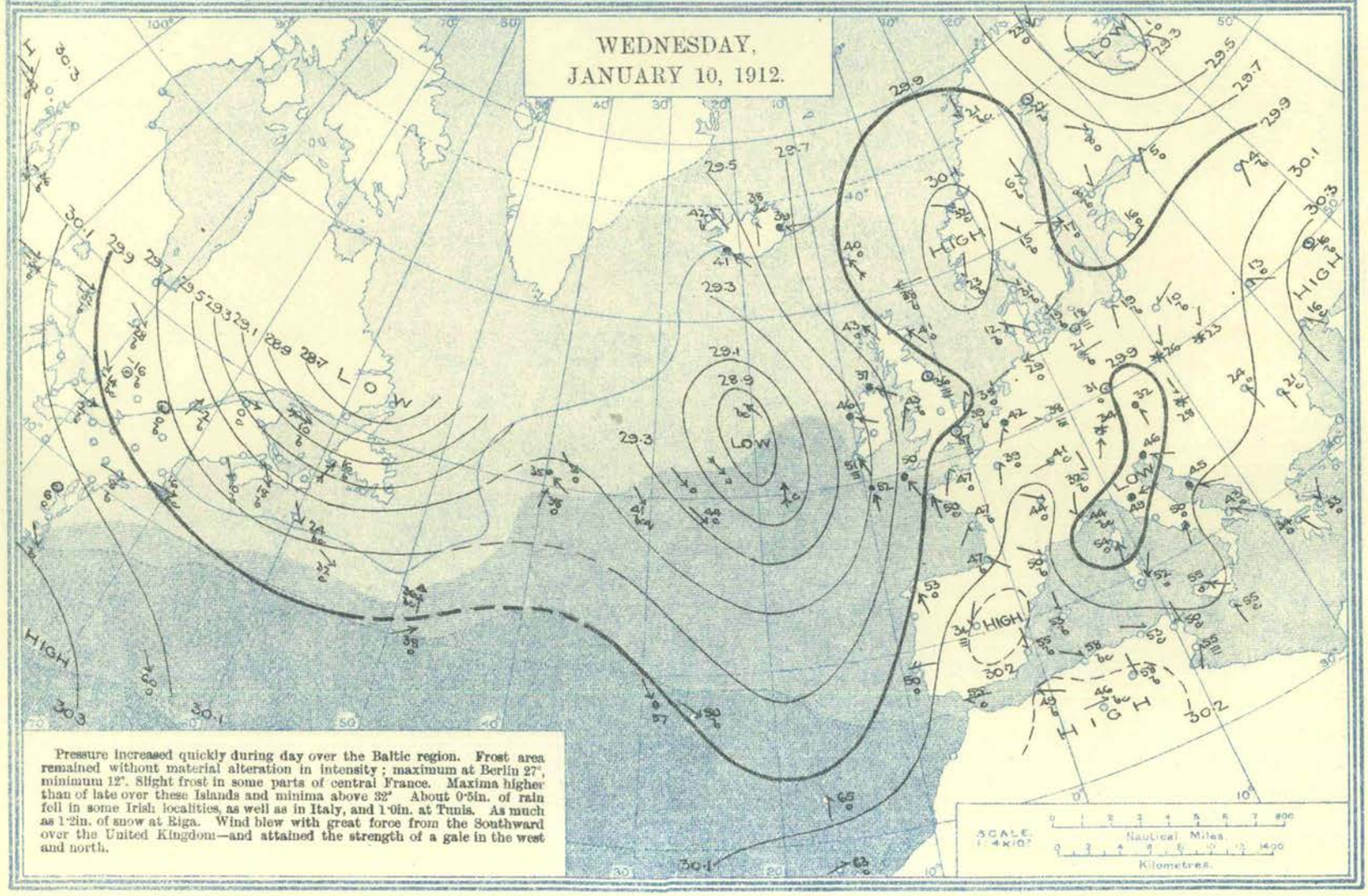
Barometer rose rapidly during day in these Islands and the nearer regions of the Continent. Wind shifted to the Northward in Germany and temperature fell. Intense frost continued in the north and north-east of Europe. Maxima below 32° over a large area as far south as Berlin. Minima at night a few degrees below 32° in most parts of the United Kingdom. Rain or snow (generally slight) occurred in various localities in these Islands, and more copious falls over nearly the whole of the Continent except Italy and the greater portion of Spain and Portugal; 0·6in. at Bilbao and Memel.



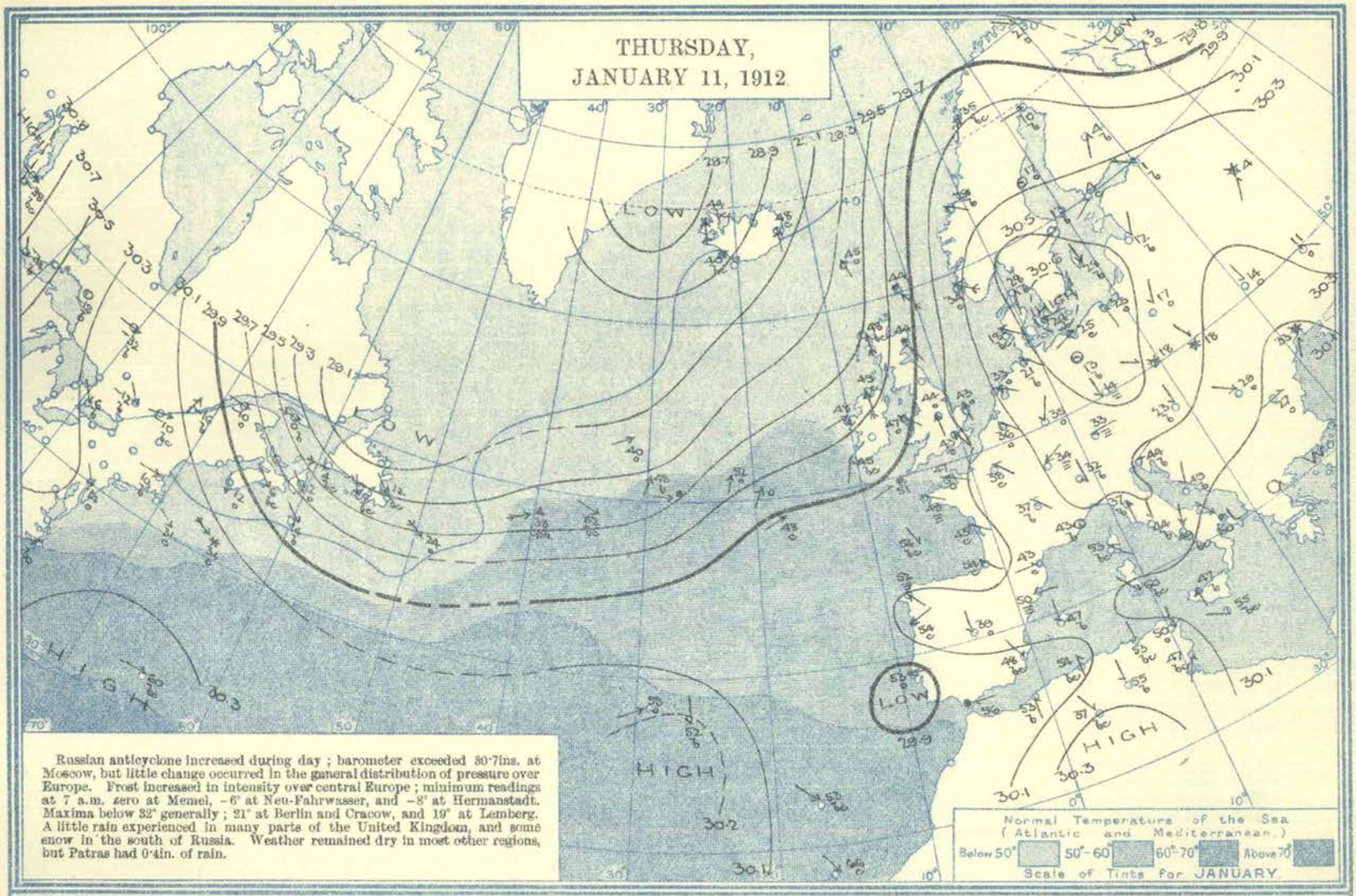
Gradient increased considerably during day over Great Britain, and wind rose to a gale from the South-Eastward in many parts. Moderate to rather large quantities of rain or sleet fell in this country, heavy snow in Little Russia, slight snow in various parts of central and northern Europe, and a moderate amount of rain in France. Intense frost continued over the northern and eastern countries, and extended as far south as Hermanstadt. A minimum of 28° recorded at Rome during night. Severe frost recommenced in the Black Sea region. Temperature underwent a steady rise over the United Kingdom.



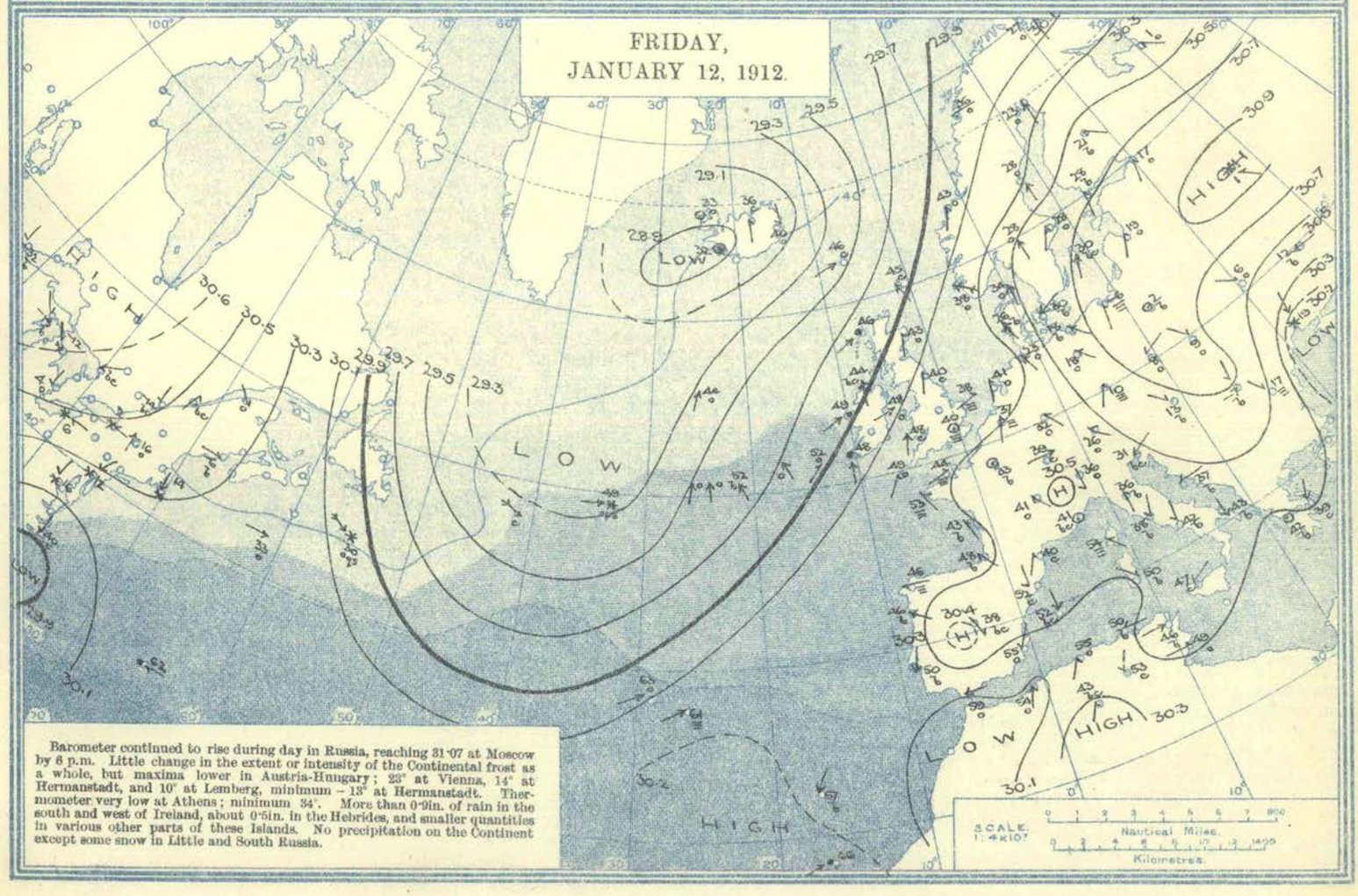
Not much change occurred in the general state of pressure during day. Intense frost underwent no modification in northern and north-eastern Europe and became more firmly established in the central countries. Minimum temperatures of the morning —22° at Haparanda, —4° at St. Petersburg, and 1° at Memel. Maxima below 32° throughout Germany and Poland, and also at Bucharest. Rain experienced later over these Islands and France (0·9in. at Rochefort and Nancy and 1·5in. at Nice). Heavy snow at Munich (1·8in), and 1·0 in. of rain at Florence.



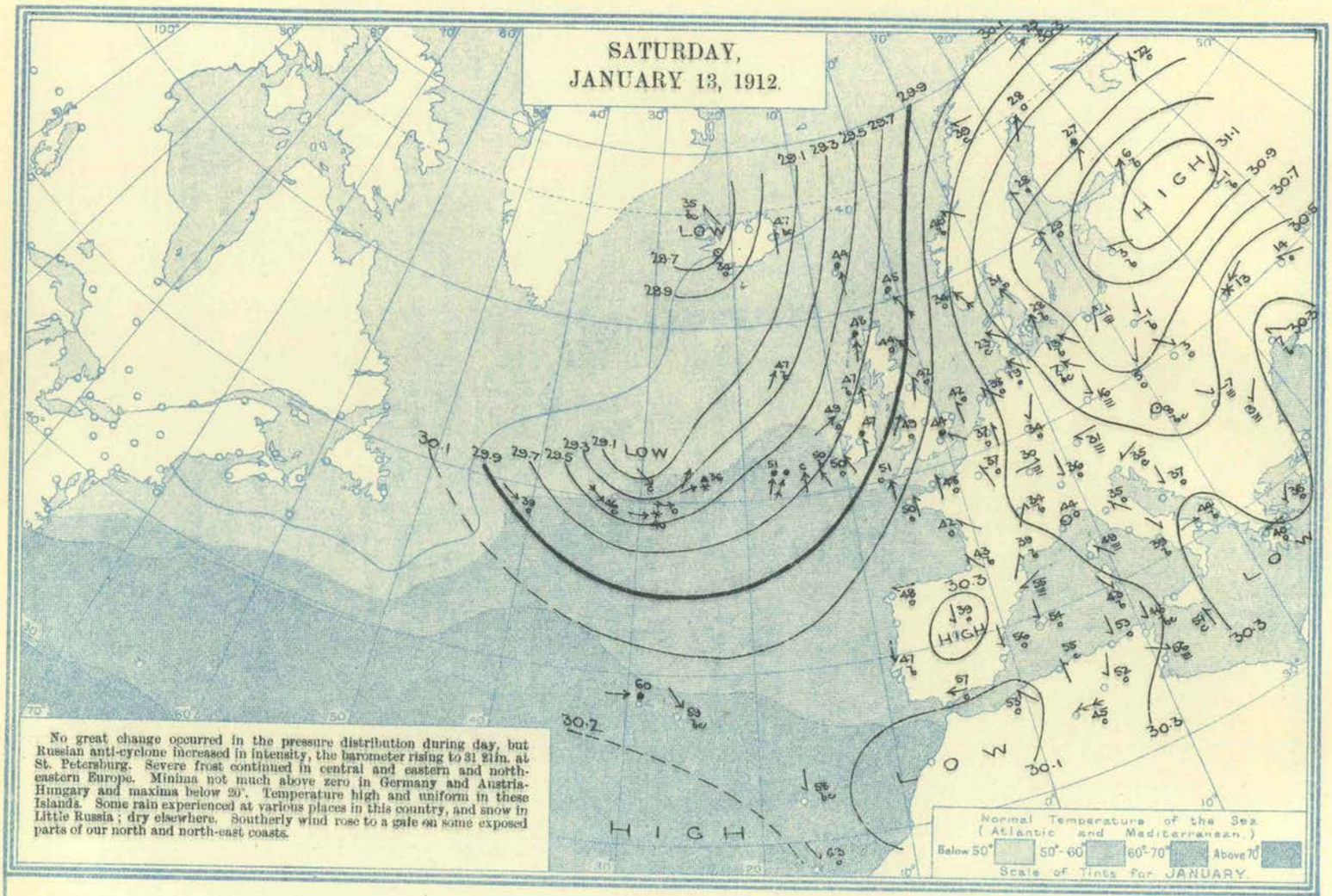
Pressure increased quickly during day over the Baltic region. Frost area remained without material alteration in intensity; maximum at Berlin 27°, minimum 12°. Slight frost in some parts of central France. Maxima higher than of late over these Islands and minima above 32°. About 0·5in. of rain fell in some Irish localities, as well as in Italy, and 1·0in. at Tunis. As much as 1·2in. of snow at Riga. Wind blew with great force from the Southward over the United Kingdom—and attained the strength of a gale in the west and north.



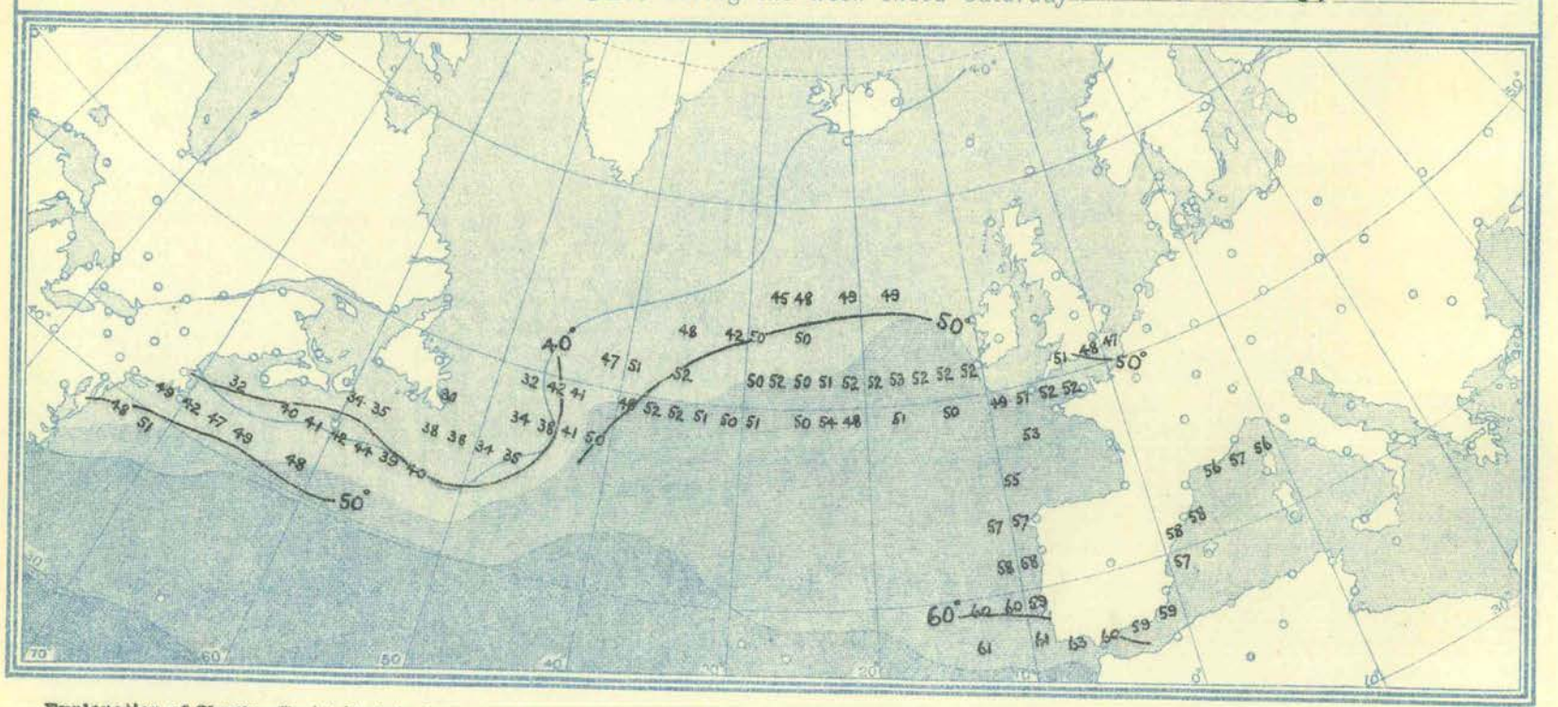
Russian anticyclone increased during day; barometer exceeded 30·7ins. at Moscow, but little change occurred in the general distribution of pressure over Europe. Frost increased in intensity over central Europe; minimum readings at 7 a.m. zero at Memel, −6° at Neu-Fahrwasser, and −8° at Hermanstadt. Maxima below 32° generally; 21° at Berlin and Cracow, and 19° at Lemberg. A little rain experienced in many parts of the United Kingdom, and some snow in the south of Russia. Weather remained dry in most other regions, but Patras had 0·4in. of rain.



Barometer continued to rise during day in Russia, reaching 31·07 at Moscow by 6 p.m. Little change in the extent or intensity of the Continental frost as a whole, but maxima lower in Austria-Hungary; 23° at Vienna, 14° at Hermanstadt, and 10° at Lemberg, minimum −13° at Hermanstadt. Thermometer very low at Athens; minimum 34°. More than 0·9in. of rain in the south and west of Ireland, about 0·5in. in the Hebrides, and smaller quantities in various other parts of these Islands. No precipitation on the Continent except some snow in Little and South Russia.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 13th January, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria, at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* | No. 3. | THIRD WEEK, SUNDAY, JANUARY 14TH, TO SATURDAY, JANUARY 20TH, 1912. | *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was unsettled throughout, with heavy falls of rain, sleet or snow during the earlier half of the period, and of rain in many places during the later days. Nearly every part of Great Britain experienced snow, but in the south-east and south of England it was very slight. Marked glazed frost was reported from Hampstead, Grayshott and Wisley on the 17th and 18th.

Temperature showed a general decrease, but was again above the average except in Scotland East and West, England North-East and North-West and the Midland Counties. In Ireland South the excess was 2°·1, and in the English Channel district 2°·5. The highest of the maxima occurred at most stations on the 14th, but in some localities on the 20th. They ranged from 57° in Scotland North, and 54° in the English Channel to 47° in England East and North-East. At some places in the north-east of Scotland the maxima on the 20th were below 32°. The lowest of the minima, which were generally recorded late in the week, ranged from 18° in Scotland East, and 22° in several English districts to 32° in Ireland. and to 35° in the English Channel. The lowest grass readings reported were 15° at Balmoral, 19° at Harrogate, and 20° at Marlborough.

Mean Temperature of the Sea was at nearly all stations higher than the average, and also higher than during the corresponding week of last year. The means for the week ranged from 49° at Scilly, 48°·5 at Salcombe, and 48° at Plymouth and Newquay to 41° at Cromarty and Burnmouth, and to 40° at Scarborough.

Rainfall exceeded the average except in Ireland North and Scotland North, the excess being large in most parts of England and in the west of Scotland. Much of the precipitation took the form of snow in the northern and midland counties. On the 15th, 16th and 17th several places recorded measurements of more than an inch; at Poltalloch the figure was 1·23 in. on the 15th and 1·92 in. on the 16th; at Balmoral 1·02 in. on the 15th, and 1·06 in. (of melted snow) on the 16th. Some other northern stations reported very heavy falls on the 16th, the largest being 1·29 in. at Dumfries and 1·37 in. at Bradford. At Hoylake and Marlborough the fall exceeded an inch on the 17th. At Southport the depth of snow on the evening of the 17th was 7 in., a similar quantity being reported next morning at Cirencester, and a depth of 8 in. at Bath.

Bright Sunshine was less than the mean in all districts. In England East there was none, and elsewhere the percentage of the possible duration ranged from 1 in Scotland East and 2 in England South-East to 20 in the English Channel.

Barometer and Wind. During the early days of the week pressure was lowest on the Atlantic to the westward of these Islands, and the main wind current was Southerly, gales being experienced on various parts of our west and north coasts. Later on, however, the barometer was lowest over the Bay of Biscay and the Channel region, and the wind became South-Easterly to Easterly, at first blowing a gale on our northern and north-eastern coasts, but subsequently decreasing to a light or moderate breeze. By the end of the week the large anticyclonic system which extended from Siberia to Norway had decreased considerably in intensity, and the barometer was still falling.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 11.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual
	Rainfall ...	Light	Heavy	Heavy	Heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Very scanty	Scanty	Nought	Very scanty	Very scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 7 weeks from Dec. 3rd, 1911.	Warmth ...	2 * 0	2 * 0	3 * 0	3 * 0	3 * 0	3 * 1	3 * 1	3 * 0	4 * 0	4 * 1	3 * 1	6 * 0
	Rainfall ...	2 * 1	5 * 0	4 * 0	6 * 0	6 * 0	6 * 0	6 * 0	6 * 0	5 * 0	5 * 0	5 * 0	6 * 0
	Sunshine ...	2 * 1	2 * 2	1 * 1	2 * 4	2 * 4	1 * 5	2 * 3	2 * 2	1 * 3	3 * 2	1 * 2	1 * 3

PAST SEASONS.

WINTER, 1910-11. Dec. 4th-March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 5	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th-June 3rd 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th-Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd-Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

(22666—24.) Wt. 113—4. 450. 1/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week,	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*47*	*14th*	*35*	*18th*	*42·5*	*37·2*	*40·0*	—	*1*	*18*	*	*	*39·0*	*+0·9*	*	*	*6*	*0·75*	—	*0·0*	—	*0*	—	*Baltasound.*
a Lerwick	45	14, 19	35	19th	42·1	37·7	40·0	+ 0·9	0	16	*	*	*	*	*	*	4	0·90	—	0·0	− 0·9	0	−13	Deerness.
a, Islands .. *a* Stornoway	50	14th	32	20th	45·1	38·6	42·0	+ 2·9	9	10	*	*	*	*	*	*	3	0·86	− 0·27	0·7	− 0·2	10	− 3	Stornoway.
a Castlebay, Barra Isd. ..	*49*	*14th*	*33*	*18th*	*46·3*	*40·0*	*42·8*	*+ 1·7*	*14*	*6*	*	*	*	*	*	*	*4*	*1·32*	—	*0·7*	—	*10*	—	*Castlebay.*
a Wick	45	14, 15	30	20th	42·6	37·3	40·1	+ 1·9	2	18	*	*	*	*	*	*	5	0·31	− 0·27	*	*	*	*	
p Strathpeffer	53	14th	25	20th	42·2	32·9	37·7	+ 0·9	1	33	*	*	*	*	*	*	4	0·06	− 0·65	0·3	− 0·8	4	−11	Strathpeffer.
b, Mainland. *p* Glencarron ..	55	14th	27	20th	43·3	33·6	38·6	+ 2·0	4	31	*	*	*	*	*	*	3	0·50	− 1·79	*	*	*	*	
p Fort Augustus..	57	15th	26	20th	44·6	34·0	39·5	+ 1·8	7	31	*	*	*	*	*	*	4	0·57	− 0·69	0·4	− 0·2	6	− 3	Fort Augustus.
p Fort William ..	53	14th	29	20th	44·1	34·3	39·4	0·0	6	30	*	*	*	*	*	*	5	1·38	− 0·74	*	*	*	*	
1. SCOTLAND, E.																								
p Gordon Castle..	49	14th	27	20th	41·6	33·7	37·8	− 0·3	0	29	2	24	38·2	+3·0	39·0	+1·0	—	—	—	0·3	—	4	—	Crathes S.
a Nairn	50	14th	22	20th	41·0	32·6	37·0	− 0·4	0	35	*	*	*	*	*	*	5	0·28	− 0·20	*0·1*	—	*1*	—	*Gordon Castle.*
a Aberdeen	45	14th	32	15th	42·3	35·6	39·1	+ 1·4	1	24	*	*	*	*	41·4	+1·7	4	0·08	− 0·34	0·2	—	3	—	Nairn.
a Balmoral ..	47	15th	18	20th	42·3	29·7	36·3	+ 2·1	1	45	5	15	*	*	*	*	5	0·64	+ 0·12	0·2	− 1·4	3	−20	Aberdeen.
p Crieff	49	14th	28	15th	39·9	32·0	36·1	− 1·1	0	41	*	*	*	*	*	*	5	2·52	+ 1·83	*	*	*	*	Balmoral.
a Leith	49	14th	32	20th	42·3	35·4	39·0	− 0·1	1	24	*	*	*	*	*	*	7	1·74	+ 0·83	0·0	—	0	—	Balruddery.
p West Linton ..	49	14th	32	20th	42·3	35·4	39·0	− 0·1	1	24	*	*	*	*	*	*	5	0·18	− 0·19	*	*	*	*	
p Marchmont ..	47	14th	24	19, 20	39·0	28·7	34·1	− 2·1	0	55	*	*	*	*	*	*	6	0·86	—	*0·1*	—	*1*	—	*West Linton.*
	47	14th	29	15th	40·1	33·3	36·8	+ 0·2	0	36	4	26	37·7	+1·6	*	*	6	0·56	+ 0·04	0·0	− 1·4	0	−19	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	44	14th	30	20th	41·1	35·9	38·6	+ 0·4	0	24	3	26	37·9	+1·5	40·8	+1·4	7	0·73	+ 0·20	0·5	—	7	—	Cockle Park.
a Shields	45	14th	30	20th	42·1	35·6	39·0	+ 0·2	0	24	*	*	*	*	*	*	6	0·67	+ 0·31	*0·4*	*− 0·5*	*5*	− 7	*Newcastle.*
p Durham	45	14th	29	19th	39·3	34·1	36·8	− 0·3	0	36	1	29	*	*	*	*	6	1·00	+ 0·66	0·6	− 0·8	8	−11	Durham.
a, North .. *p* Rounton	46	14th	29	17th	39·5	34·8	37·2	+ 0·2	0	34	3	27	38·9	*	*	*	6	0·47	+ 0·07	*	*	*	*	Rounton.
a West Witton	*45*	*14th*	*24*	*20th*	*38·3*	*32·4*	*35·5*	—	*0*	*46*	*3*	*21*	*38·9*	—	*40·9*	—	*7*	*1·73*	—	*	*	*	*	*West Witton.*
p Scarborough	45	14th	32	17, 18, 19	40·1	35·7	38·0	− 0·4	0	28	*	*	*	*	*	*	6	0·34	− 0·10	0·0	—	0	—	Scarborough.
p York	45	14th	30	19th	40·1	35·0	37·7	− 0·3	0	30	*	*	40·0	+2·0	43·0	+1·8	7	1·52	+ 1·15	0·0	− 1·0	0	−13	York.
a Spurn Head	43	14th	30	19th	40·7	35·7	38·3	− 0·3	0	26	2	28	39·7	+2·9	44·0	+1·5	5	0·60	+ 0·33	*0·0*	—	*0*	—	*Hull.*
b, South .. *a* Lincoln	45	14th	30	18th	41·0	35·8	38·5	+ 1·3	0	25	*	*	38·8	+2·1	42·6	+1·3	6	1·13	+ 0·77	*	*	*	*	Lincoln.
a Fulbeck	47	14th	28	18th	40·0	35·0	37·6	+ 0·2	0	31	2	26	40·1	+2·2	44·3	+1·4	6	1·14	+ 0·76	0·0	—	0	—	Rauceby.
																				0·0	—	0	—	Skegness.
3. ENGLAND, E.																				*0·1*	—	*1*	—	*Lowestoft.*
p Cromer	44	14, 20	29	18th	41·4	34·1	37·9	+ 1·0	0	29	2	29	39·9	+2·8	43·8	+2·2	—	—	—	0·0	—	0	—	Cromer.
p Hillington	46	20th	28	17th	42·3	35·3	38·9	+ 2·2	1	24	*	*	*	*	*	*	7	0·28	—	0·0	—	0	—	Hillington.
a, North .. *a* Yarmouth	44	14, 18, 20	29	18th	42·3	36·4	39·5	+ 2·1	1	21	3	26	*	*	*	*	5	0·56	+ 0·11	0·0	− 1·5	0	−19	Yarmouth
a Norwich	46	20th	29	18th	42·0	36·0	39·1	+ 1·9	0	20	*	*	40·4	+3·3	44·9	+2·3	3	0·24	− 0·13	0·0	—	0	—	Norwich.
p Geldeston	47	20th	29	17th	43·0	36·3	39·8	+ 2·1	3	22	2	27	39·7	—	*	*	6	0·46	—	*0·1*	—	*1*	—	
											*	*	*	*	*	*	5	0·20	− 0·14	0·0	− 1·7	0	−21	Geldeston.
p Cambridge	46	20th	30	18th	43·0	36·9	40·1	+ 2·6	3	20	3	29	41·0	+3·4	44·9	+2·5	5	1·12	+ 0·81	0·0	− 1·6	0	−20	Cambridge.
a Felixstowe	*44*	*18, 20*	*32*	*18th*	*42·4*	*37·9*	*40·2*	*+ 2·0*	*1*	*15*	*	*	*	*	*	*	*5*	*0·46*	—	*0·0*	—	*0*	—	*Felixstowe.*
a Clacton-on-Sea ..	44	14, 15, 20	32	18th	42·7	37·7	40·3	+ 2·2	2	16	1	30	42·6	+3·2	46·4	+2·3	5	0·51	—	0·0	—	0	—	Clacton.
b, South .. *a* Rothamsted	46	20th	30	18, 19	41·9	35·3	38·7	+ 1·5	0	23	*	*	*	*	*	*	7	1·10	+ 0·65	0·0	− 1·6	0	−20	Rothamsted.
a Shoeburyness	*45*	*14, 20*	*32*	*18th*	*42·6*	*37·3*	*40·1*	*+ 1·5*	*2*	*18*	2	29	42·1	+3·7	*	*	*5*	*0·87*	*+ 0·59*	*0·0*	—	*0*	—	*Southend.*
p Tottenham	46	14, 20	32	17th	43·4	38·6	41·1	+ 2·4	4	14	1	28	*	*	46·3	+2·6	4	0·91	—	0·0	—	0	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	42	14th	26	19th	36·3	32·9	34·7	− 2·1	0	51	3	19	39·8	+2·2	43·0	+1·5	—	—	—	0·0	—	0	—	*Huddersfield.*
a Bawtry	44	14th	30	18th	38·9	36·0	37·5	− 0·2	0	32	2	26	39·7	+1·7	41·7	+1·5	7	2·13	+ 1·63	0·0	—	0	—	Harrogate.
p Buxton	*44*	*14th*	*24*	*17th*	*38·1*	*31·8*	*35·1*	*− 0·2*	*0*	*48*	2	28	39·9	*	42·5	*	7	1·37	+ 1·00	0·0	− 1·2	0	−15	Worksop.
a, East .. *a* Nottingham	45	14, 15	28	18th	40·3	35·6	38·0	+ 0·3	0	28	*4*	*25*	*38·9*	*+1·8*	*43·8*	*+1·5*	7	*2·14*	*+ 1·07*	*0·0*	—	*0*	—	*Buxton.*
p Birmingham, Edgbsn.	45	14, 15	27	17, 18	40·3	34·6	37·6	− 0·1	0	31	2	27	39·5	+3·2	42·0	+2·1	7	1·80	+ 1·39	0·0	—	0	—	Nottingham.
a Raunds	45	14, 15	28	18th	41·0	34·6	37·9	+ 0·9	0	29	4	25	41·5	+2·1	45·8	+1·6	7	2·22	+ 1·78	0·2	—	3	—	Birmingham.
a Oxford	47	20th	31	18, 19, 20	42·6	36·9	39·9	+ 1·0	2	19	3	29	41·3	—	*	*	6	1·43	—	*	*	*	*	Raunds.
											0	31	*	*	*	*	7	1·91	+ 1·52	0·5	− 1·0	6	−12	Oxford.
											—	—	—	—	—	—	—	—	—	0·0	—	0	—	Sheffield.
a Cheadle	44	15th	27	19th	38·0	33·7	35·9	− 0·7	0	43	2	26	39·2	+2·0	43·0	+1·2	—	—	—	—	—	—	—	
p Shrewsbury	49	14, 15	24	19th	45·9	33·0	39·7	+ 1·5	11	36	4	26	*	*	*	*	7	2·47	+ 1·92	*	*	*	*	Cheadle.
b, West .. *a* Hereford	47	14, 15	22	19th	40·8	33·9	37·5	− 0·7	0	32	1	30	*	*	*	*	6	1·64	—	*	*	*	*	Shrewsbury.
a Cirencester	49	16th	23	19th	42·7	32·9	38·0	+ 0·8	2	34	1	26	*	*	*	*	3	1·01	+ 0·51	*	*	*	*	Hereford.
a Bath	50	15th	25	20th	45·1	36·6	41·0	+ 1·6	9	22	2	26	42·2	—	44·8	—	7	1·69	+ 1·18	0·4	− 1·1	5	−14	Cirencester.
											*	*	43·7	+3·8	46·2	+1·6	6	0·88	+ 0·35	0·3	—	4	—	Bath.
5. ENGLAND, S.E.																								
p Kew	47	20th	32	17, 19	44·3	38·4	41·5	+ 2·6	6	15	1	30	43·6	+4·5	45·1	+1·2	—	—	—	*	*	*	*	Canterbury.
a Marlborough	47	15th	22	19th	42·4	34·0	38·4	+ 1·0	1	30	1	23	42·2	+4·1	45·9	+2·3	6	1·03	+ 0·66	0·0	− 1·3	0	−16	Kew.
a Margate	46	18, 20	32	18th	43·3	37·4	40·5	+ 1·5	4	18	1	20	*	*	*	*	7	1·94	+ 1·39	0·2	− 1·2	3	−13	Marlborough.
a Wisley, Surrey ..	49	20th	31	19, 20	43·7	37·0	40·5	+ 1·3	5	20	2	—	41·9	+3·0	45·0	+2·9	3	0·66	+ 0·29	0·0	− 1·5	0	−19	Margate.
a Swarraton	49	20th	30	19th	43·7	36·9	40·4	+ 2·9	5	20	3	21	42·1	+3·8	45·5	+2·7	6	0·95	—	0·2	—	3	—	Wisley.
a Tunbridge Wells ..	46	20th	29	18th	42·4	36·0	39·3	+ 1·8	1	22	1	26	44·0	+5·4	46·8	+2·8	7	0·96	+ 0·41	0·2	—	2	—	Worthing.
a Dungeness	48	18, 20	32	18th	45·3	38·6	42·1	+ 2·9	15	10	1	26	42·1	+5·0	*	*	7	0·81	+ 0·23	0·1	—	1	—	Tunbridge Wells
p Hastings..	47	14, 20	32	17th	45·9	39·7	42·9	+ 3·5	16	6	*	*	*	*	*	*	2	0·49	+ 0·09	0·1	—	1	—	Littlestone.
p Southampton	50	20th	32	18th	46·4	39·1	42·9	+ 2·9	18	8	0	32	43·2	—	46·3	—	5	0·58	+ 0·07	*0·1*	*− 1·8*	*1*	*−22*	*Hastings.*
a Ventnor	51	20th	35	18th	47·9	41·3	44·7	+ 3·0	22	2	2	29	*	*	*	*	7	1·30	+ 0·74	0·7	− 1·0	8	−12	Southampton.
											*	*	*	*	*	*	6	1·36	+ 0·80	0·6	− 1·3	7	−16	Ventnor.
											1	29	44·8	+4·5	47·0	+2·1	—	—	—	*0·6*	—	*7*	—	*Portsmouth.*
											*	*	44·6	—	47·1	—	—	—	—	0·1	− 1·7	1	−21	Eastbourne.
											*	*	44·1	—	45·7	—	—	—	—	*0·9*	—	*11*	—	*Bournemouth.*
LONDON.											1	30	*	*	45·9	—	—	—	—	*0·2*	*− 1·5*	*2*	*−18*	*Brighton.*
a Westminster	*48*	*20th*	*33*	*18th*	*44·7*	*39·3*	*42·1*	*+ 3·3*	*12*	*8*	1	*29*	*	*	*	*	*4*	*0·99*	*+ 0·61*	*0·0*	*− 0·6*	*0*	*− 7*	*Westminster.*
a Greenwich	*48*	*20th*	*31*	*18th*	*43·3*	*37·1*	*40·3*	*+ 1·6*	*4*	*19*	2	*26*	*	*	*	*	*4*	*0·93*	*+ 0·57*	*0·1*	*− 1·2*	*1*	*− 15*	*Greenwich.*
• *a Hampstead*	*44*	*14, 15*	*31*	*18th*	*41·3*	*37·6*	*39·5*	—	*0*	*18*	2	*24*	*	*	*	*	*5*	*1·06*	—	*0·0*	—	*0*	—	*Hampstead.*
a Camden Square ..	*47*	*20th*	*31*	*19th*	*43·9*	*37·4*	*40·8*	—	*5*	*18*	1	*29*	*	*	*	*	*5*	*1·21*	—	*0·0*	—	*0*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch	47	14th	29	18, 19	42·1	33·9	38·2	− 0·9	0	30	*	*	*	*	*	*	6	3·74	+ 2·69	*	*	*	*	
p Glasgow	49	14th	32	19th	43·0	35·4	39·4	+ 0·9	3	25	1	29	*	*	—	—	5	0·56	− 0·17	0·0	− 0·7	0	−10	Glasgow.
p Rothesay	49	14th	31	17th	43·0	35·7	39·5	− 0·1	3	24	*	*	*	*	43·0	+1·1	6	2·38	+ 1·40	*	*	*	*	
a Kilmarnock	47	14th	29	20th	42·0	33·7	38·0	− 1·7	0	28	*	*	*	*	*	*	5	0·38	—	*0·3*	—	*4*	—	*Kilmarnock.*
a Colmonell	48	14th	28	18th	43·1	34·0	38·7	− 1·0	3	30	2	27	*	*	*	*	5	2·39	+ 1·39	*	*	*	*	
p Dumfries	48	14th	28	17th	41·7	32·9	37·5	− 0·8	0	32	2	24	39·3	—	42·0	—	7	2·12	+ 1·36	*0·0*	—	*0*	—	*Dumfries.*
p Cally, Gatehouse	48	15th	27	18th	41·0	30·9	36·2	− 1·5	0	41	*	*	*	*	*	*	6	1·98	+ 0·96	*	*	*	*	
b I. OF MAN.																								
p Douglas	49	14, 16	31	17, 19	44·9	35·7	40·5	− 0·2	8	25	3	27	*	*	*	*	6	0·94	+ 0·16	0·5	− 1·1	7	−14	Douglas.
											3	22	39·7	+2·6	43·0	+1·3	—	—	—	*0·0*	—	*0*	—	*Burnley.*
											2	24	*	*	*	*	—	—	—	0·2	—	3	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	48	14, 16	28	20th	43·5	32·4	38·2	+ 0·3	4	36	3	21	40·6	—	44·1	—	5	0·30	− 0·33	0·6	—	8	—	Aspatria.
p Newton Rigg	47	14th	26	20th	39·9	32·1	36·2	− 0·7	0	41	5	23	39·8	+1·7	41·9	+1·3	5	1·80	+ 1·06	0·4	− 0·9	5	−12	Newton Rigg.
p Stonyhurst	48	14th	28	17th	41·1	35·0	38·2	+ 0·2	0	27	4	24	*	*	*	*	7	0·88	− 0·06	0·0	− 1·1	0	−14	Stonyhurst.
p Blackpool	49	14th	26	19th	41·7	32·3	37·2	− 1·5	0	34	*	*	*	*	*	*	6	1·77	+ 1·16	0·2	− 1·0	3	−13	Blackpool.
p Manchester, Prestwich	49	14th	23	17, 19	43·7	35·4	39·7	+ 1·5	5	25	1	26	*	*	*	*	7	1·55	+ 0·85	*0·0*	*− 0·7*	*0*	*− 9*	*Prestwich.*
a Liverpool (Bidston) ..	47	15th	25	19, 20	41·7	35·3	38·6	− 1·3	0	24	*	*	*	*	*	*	7	1·75	+ 1·27	*0·3*	—	*4*	—	*Liverpool.*
a Hawarden Bridge ..	48	15th	22	19, 20	40·9	33·4	37·3	− 2·9	0	33	4	23	39·4	+1·8	42·1	+1·4	7	1·89	+ 1·52	0·2	− 1·1	3	−14	*Southport.*
											1	27	40·7	+2·9	44·8	+2·2	—	—	—	*0·0*	—	*0*	—	*Manchester (City).*
b. NORTH WALES.																								
p Llandudno	52	14th	28	18th	45·0	36·4	40·9	− 0·6	8	23	*	*	*	*	*	*	5	0·69	+ 0·12	1·0	− 0·5	13	− 6	Llandudno.
a Holyhead	50	15, 16	32	19th	46·1	37·9	42·2	+ 0·3	19	11	*	*	*	*	*	*	6	0·78	+ 0·13	0·8	—	10	—	Aberdovey.
p Bettws-y-Coed ..	52	14th	29	18th	43·1	33·4	38·4	− 2·3	3	32	1	28	42·0	+2·7	45·7	+2·2	5	1·05	—	0·5	—	6	—	Bettws-y-Coed.

For notes see opposite page

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.															**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average								
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				1·3	—	16	—	Aberystwyth.
a Llangammarch Wells	48	14, 15	22	19th	42·6	30·9	37·0	− 0·2	2	41	4	23	43·0	+3·5	46·1	+1·7	7	1·33	—	0·1	—	1	—	Llangammarch.
a Pembroke	52	14th	32	18th	47·9	39·3	43·8	+ 1·2	24	8							6	1·30	+ 0·55	0·7	− 1·0	9	−12	Pembroke.[Wells
p Cardiff	48	14th	28	18th	43·0	35·1	39·2	− 0·4	3	26	3	30	42·3	+4·0	45·7	+2·5	7	1·07	+ 0·26	*0·0*	—	*0*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	50	15th	29	18th	45·6	37·0	41·5	+ 2·0	10	21	3	27					7	1·41	+ 0·78	*0·2*	—	*3*	—	*Clifton.*
a Shaftesbury	47	20th	29	18, 19	43·0	34·7	39·0	+ 1·4	3	27			42·3				7	1·60	+ 1·01					Shaftesbury.
a Arlington	49	14th	30	15, 18, 19	46·3	35·7	41·2	+ 1·9	12	26			46·5				4	0·53	− 0·51	0·8	− 0·9	10	−11	Newquay.
a Cullompton	50	20th	30	15th	47·1	35·4	41·5	+ 1·9	14	28	1	27	44·6				7	1·42	+ 0·72	0·1	− 1·4	1	−17	Cullompton.
a Portland	50	15th	33	18th	48·6	42·3	45·6	+ 3·8	25	0							5	1·73	—	*0·6*	—	*7*	—	*Weymouth.*
p Plymouth	50	14-16, 20	34	15, 18	48·4	40·2	44·5	+ 2·3	25	5	3	24	45·6	+4·2			4	0·61	− 0·14	0·3	− 0·8	10	−10	Plymouth.
p Falmouth	51	20th	36	18th	49·1	41·4	45·4	+ 1·9	26	2							4	0·95	− 0·01	0·5	− 1·3	6	−16	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	49	14th	33	18, 19, 20	45·0	38·0	41·6	+ 0·7	8	17							4	0·36	− 0·24					
a Blacksod Point ..	51	16th	37	19th	46·6	40·1	43·5	+ 0·9	18	5							1	0·28	− 0·84					
v Markree Castle ..	53	15th	33	19th	47·9	37·9	43·1	+ 3·7	25	11	1	29	43·1	+2·8	45·3	+0·5	4	0·25	− 0·59	1·4	+ 0·1	18	+ 1	Markree Castle.
a Birr Castle ..	51	14, 16	35	19th	48·3	41·0	44·8	+ 5·2	24	3							5	0·29	− 0·34	*1·5*	− *0·1*	*19*	− *1*	*Birr Castle.*
b, East .. { *p* Armagh	48	14, 16	32	18th	45·0	36·6	41·0	+ 1·5	8	22	1	27	42·5	+2·5	44·5	+1·3	4	0·94	+ 0·37	0·6	− 0·9	8	−12	Armagh.
a Donaghadee	49	14th	32	18th	45·1	38·7	42·0	+ 1·5	9	9							4	1·66	+ 1·08					
											3	26	43·6	+3·1	45·6	+1·8								Trinity Coll.
10. IRELAND, S.											2	26								0·4	− 1·5	5	−19	Phœnix Park.
a. East .. { *p* Dublin, City	52	14th	36	19th	47·8	40·1	44·1	+ 2·6	23	5							6	1·01	+ 0·51					Dublin City,
a Kilkenny	51	16th	35	18, 19	48·3	40·6	44·6	+ 4·5	24	4							7	0·80	+ 0·03					
a Waterford ..	51	16th	35	19th	49·6	40·9	45·4	+ 4·3	28	3							4	1·37	+ 0·49					
b, West .. { *a* Birr Castle	51	14, 16	35	19th	48·3	41·0	44·8	+ 5·2	24	3							5	0·29	− 0·34	1·5	− 0·1	19	− 1	Birr Castle.
a Foynes	51	16th	32	19th	47·7	38·9	43·5	+ 1·6	24	9							7	0·25	− 0·59					
a Cahir	51	16th	34	19th	48·4	39·0	43·9	+ 2·6	26	8							7	1·00	—					
a Killarney	52	16th	38	18th	49·9	40·8	45·5	+ 3·0	30	3							7	1·29	− 0·13					
a Valencia	53	19th	34	18th	50·3	41·0	45·8	+ 1·3	31	3							5	1·98	+ 0·73	1·6	0·0	20	0	Valencia.
a Roche's Point ..	51	17th	36	19th	49·3	43·7	46·6	+ 3·1	32	0							7	0·82	− 0·21	1·6	—	20	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	17th	40	18, 19	51·4	45·1	48·4	+ 2·7	45	0							4	0·64	− 0·06	2·0	+ 0·1	24	+ 1	Scilly.
a Jersey, St. Aubins ..	52	20th	37	19th	49·6	42·9	46·4	+ 3·8	31	0							5	0·81	+ 0·14	1·6	− 0·6	19	− 7	St. Heliers.
a Guernsey (Villa Carey)	51	19th	35	19th	48·6	42·9	45·9	+ 2·7	27	0	0	40	47·1	+3·9	48·9	+2·4	6	0·94	+ 0·20	1·4	− 0·3	17	− 4	Guernsey.*

Additional sunshine Means :—*Bognor, 0·3 hrs. 4 %; Ramsgate, 0·0 hrs. 0 %; Rhyl, 1·1 hrs. 14 %; Salcombe, 0·6 hrs. 7 %; Tenby, 0·5 hrs. (− 1·4) 6 % (− 17 %); Torquay, 0·2 hrs. (−1·7) 2 % (−21 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 20th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from. Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	44	44	44·0	+0·8	SCOTLAND, W. ..	Lamlash	46	42	44·7	−0·5
	Kirkwall	42	42	42·0	+1·0		Ballantrae	46	41	43·7	+1·3
	Wick	—	—	—	—	ENGLAND, N.W. ..	Port Erin	48	45	46·4	+0·4
	Cromarty	42	40	41·1	+1·0		Newquay	48	48	48·0	+1·8
SCOTLAND, E. ..	Pennan Bay	44	43	43·8	+3·7	ENGLAND, S.W. ..	Scilly	50	48	49·2	—
	Aberdeen, Cove Bay	45	44	44·2	+4·7		Plymouth‡	48	48	47·9	+0·6
SCOTLAND, N.E. ..	Burnmouth, Berwick	41	40	40·7	+0·5		Salcombe	50	46	48·5	+1·8
	Scarborough	43	37	40·2	−1·0	IRELAND, N.W. ..	Sheephaven	46	44	44·8	−0·1
ENGLAND, E. ..	Shipwash Lightship	46	42	44·7	+4·3		Teelin	46	43	44·7	+0·9
	Margate‡	45	43	44·1	+4·1	IRELAND, S.W. ..	Cleggan	46	43	44·6	+0·4
ENGLAND, S.E. ..	Eastbourne‡	46	43	45·0	+3·4		Seafield	48	45	46·3	+0·6
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **S** are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRD WEEK—January 14th to January 20th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	57	23	43·4	35·5	39·6	+ 0·7	4	— 3	25	— 7	4	— 1	0·65	—0·80	0·4	—0·4	6	— 6
Eastern.																		
1. SCOTLAND, EAST ...	50	18	41·1	32·6	37·0	— 1·1	0	— 8	35	— 2	5	+ 1	0·86	+0·28	0·1	—1·3	1	—18
2. ENGLAND, N.E.	47	28	40·4	35·3	38·0	— 0·9	0	— 8	28	— 4	6	+ 3	0·84	+0·44	0·2	—1·2	3	—15
3. ENGLAND, EAST ...	47	28	42·4	36·3	39·5	+ 1·4	1	— 7	21	— 16	5	+ 2	0·60	+0·24	0·0	—1·6	0	—20
4. MIDLAND COUNTIES ...	50	22	41·1	34·6	38·0	— 0·3	0	— 10	28	— 8	6	+ 3	1·69	+1·25	0·2	—1·2	3	—15
5. ENGLAND, S.E.	51	22	44·5	37·8	41·3	+ 1·5	7	— 4	18	— 10	5	+ 1	1·01	+0·52	0·2	—1·4	2	—17
Western.																		
6. SCOTLAND, WEST ...	49	27	42·6	34·0	38·5	— 1·8	2	— 9	30	+ 6	6	+ 2	1·81	+0·75	0·3	—0·9	4	—12
7. ENGLAND, N.W.	52	22	42·7	34·4	38·7	— 1·3	2	— 7	28	+ 2	6	+ 2	1·25	+0·57	0·5	—0·7	6	— 9
8. ENGLAND, S.W.	52	22	46·2	37·2	41·9	+ 0·3	12	— 5	21	+ 1	6	+ 2	1·20	+0·42	0·6	—1·0	7	—12
9. IRELAND, NORTH ...	53	32	46·3	38·7	42·7	+ 1·7	19	+ 5	9	— 13	4	— 1	0·63	—0·13	1·0	—0·4	13	— 5
10. IRELAND, SOUTH ...	53	32	48·8	40·7	44·9	+ 2·1	26	+ 5	4	— 12	6	+ 2	0·98	+0·13	1·3	—0·3	16	— 4
11. ENGLISH CHANNEL ...	54	35	49·9	43·6	46·9	+ 2·5	34	+ 9	0	— 7	5	0	0·80	+0·18	1·7	—0·3	20	— 4

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 7 Weeks, December 3rd, 1911, to January 20th, 1912.

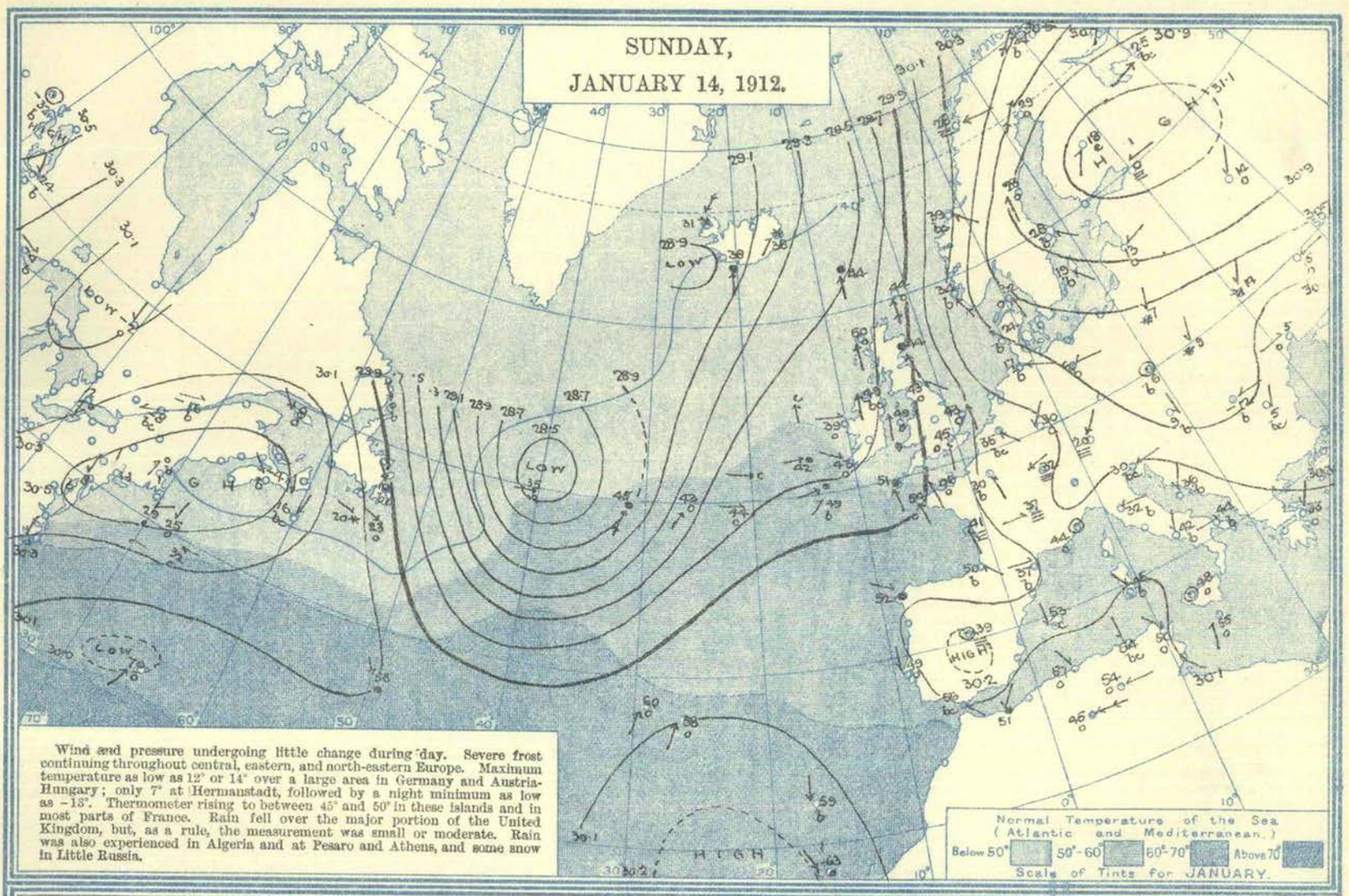
0. SCOTLAND, NORTH ...	57	22	*	*	*	*	77	+ 24	125	—102	42	+ 6	8·95	—0·03	0·7	0·0	11	0
Eastern.																		
1. SCOTLAND, EAST ...	56	13	*	*	*	*	48	0	194	— 86	37	+ 9	6·36	+2·00	1·0	—0·1	15	— 1
2. ENGLAND, N.E	55	23	*	*	*	*	72	+ 16	154	— 75	38	+13	5·50	+2·20	1·1	—0·1	15	— 1
3. ENGLAND, EAST ...	55	26	*	*	*	*	108	+ 46	112	—151	38	+11	5·70	+2·76	1·1	—0·3	14	— 4
4. MIDLAND COUNTIES ...	56	22	*	*	*	*	115	+ 45	136	—130	39	+13	8·10	+4·53	1·1	—0·1	15	— 1
5. ENGLAND, S.E.	54	22	*	*	*	*	153	+ 56	80	—113	37	+10	8·65	+4·81	1·2	—0·3	15	— 4
Western.																		
6. SCOTLAND, WEST ...	55	21	*	*	*	*	91	+ 16	117	— 63	45	+13	11·92	+3·95	0·9	—0·1	13	— 1
7. ENGLAND, N.W.	58	21	*	*	*	*	114	+ 37	100	— 84	41	+12	9·05	+4·06	1·0	0·0	14	0
8. ENGLAND, S.W.	57	22		*	*	*	187	+ 58	48	— 88	43	+13	12·11	+5·57	1·3	—0·2	17	— 3
9. IRELAND, NORTH ...	56	25	*	*	*	*	147	+ 54	84	— 75	40	+ 6	9·01	+3·27	1·2	0·0	16	0
10. IRELAND, SOUTH ...	57	26	*	*	*	*	188	+ 37	61	— 59	45	+13	11·61	+4·68	1·4	—0·1	18	— 1
11. ENGLISH CHANNEL ...	57	35	*	*	*	*	296	+ 92	0	— 44	40	+ 6	8·99	+3·38	1·5	—0·4	19	— 5

THE YEAR.—Aggregates, &c., for the Period of 3 Weeks, December 31st, 1911, to January 20th, 1912.

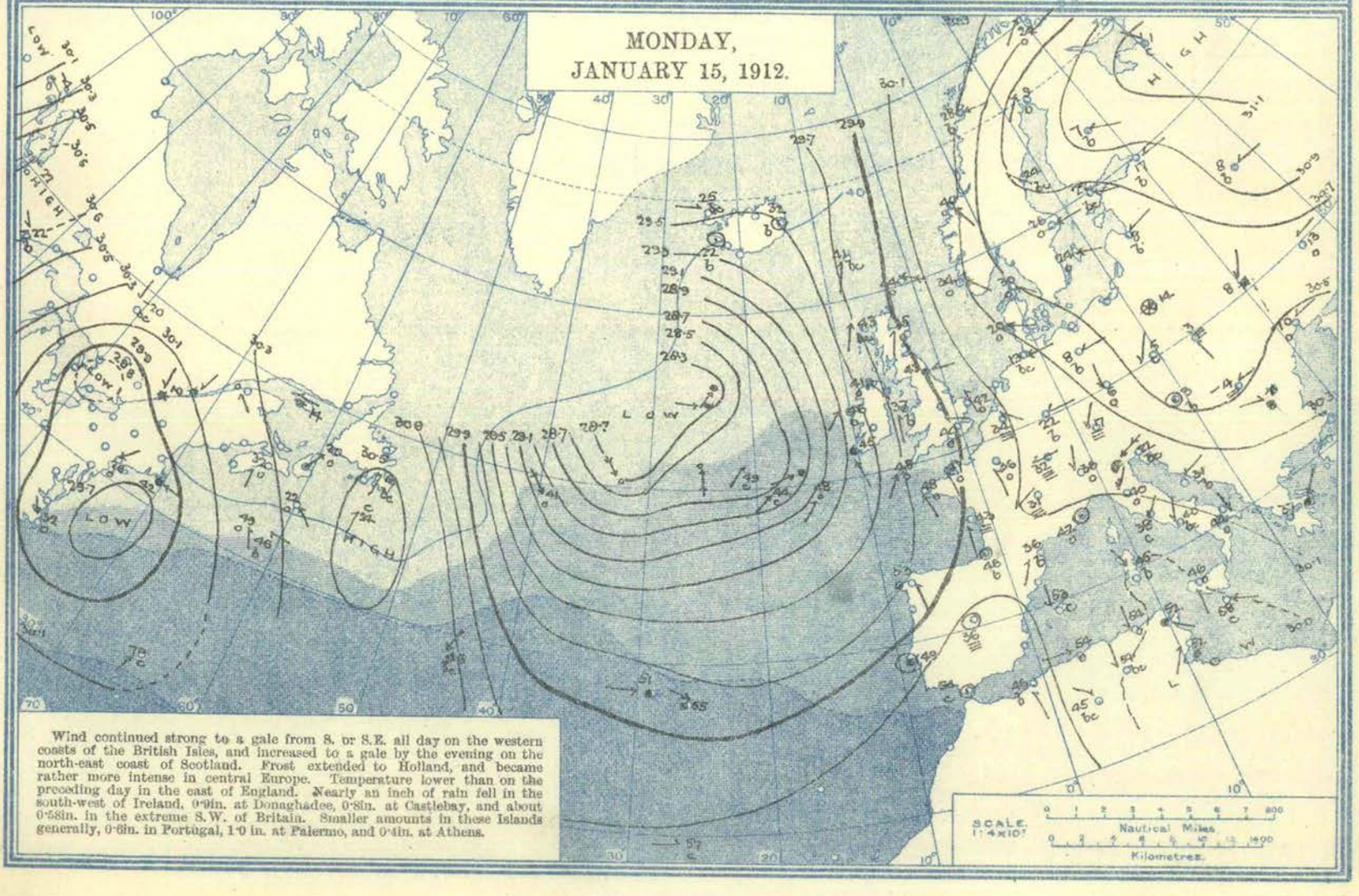
0. SCOTLAND, NORTH ...	57	22	*	*	*	*	24	+ 5	57	— 48	17	+ 2	3·21	—0·47	0·6	—0·1	9	— 1
Eastern.																		
1. SCOTLAND, EAST ...	56	13	*	*	*	*	11	— 7	88	— 36	15	+ 4	2·19	+0·47	0·7	—0·5	10	— 7
2. ENGLAND, N.E.	55	23	*	*	*	*	22	+ 1	71	— 33	15	+ 4	2·11	+0·83	0·6	—0·6	8	— 8
3. ENGLAND, EAST ...	53	26	*	*	*	*	29	+ 6	57	— 63	14	+ 3	1·92	+0·72	0·6	—0·8	8	—10
4. MIDLAND COUNTIES ...	55	22	*	*	*	*	30	+ 2	71	— 48	15	+ 4	3·25	+1·80	0·5	—0·8	6	—10
5. ENGLAND, S.E.	53	22	*	*	*	*	45	+ 11	44	— 48	13	+ 2	2·42	+0·89	0·5	—1·0	6	—12
Western.																		
6. SCOTLAND, WEST ...	54	21	*	*	*	*	26	— 1	64	— 20	18	+ 5	4·47	+1·34	0·8	—0·3	11	— 4
7. ENGLAND, N.W.	56	21	*	*	*	*	34	+ 6	59	— 26	16	+ 4	3·12	+1·14	0·8	—0·3	11	— 4
8. ENGLAND, S.W.	54	22	*	*	*	*	69	+ 20	30	— 36	17	+ 5	3·93	+1·46	0·8	—0·7	10	— 9
9. IRELAND, NORTH ...	54	25	*	*	*	*	65	+ 27	24	— 48	15	+ 1	3·26	+0·95	1·0	—0·3	13	— 4
10. IRELAND, SOUTH ...	55	28	*	*	*	*	88	+ 28	10	— 44	18	+ 5	4·27	+1·46	1·3	—0·2	17	— 3
11. ENGLISH CHANNEL ...	54	35	*	*	*	*	118	+ 43	0	— 25	13	— 1	2·35	+0·24	1·2	—0·8	15	—10

NOTES ON TABLE IV.

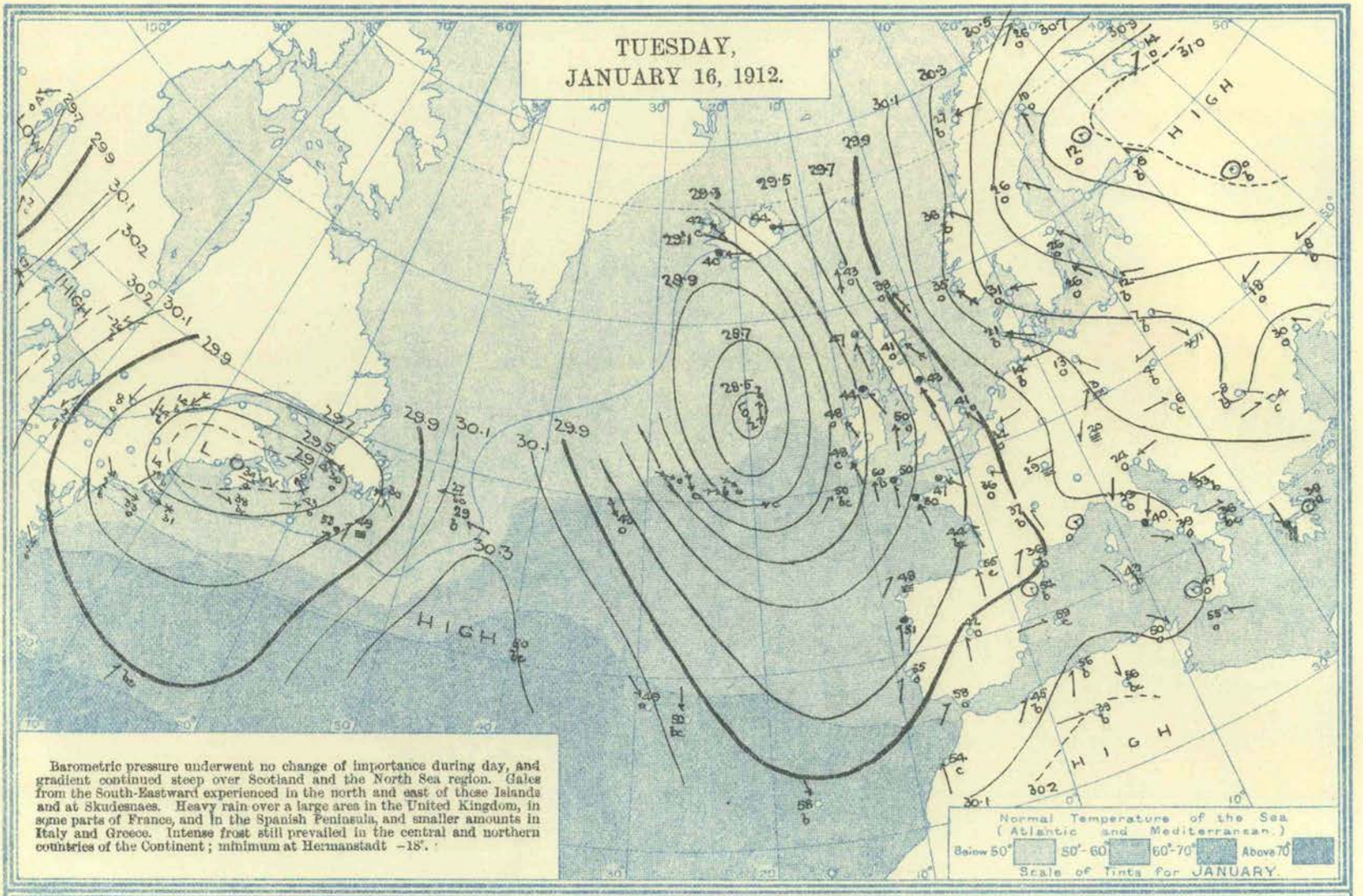
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



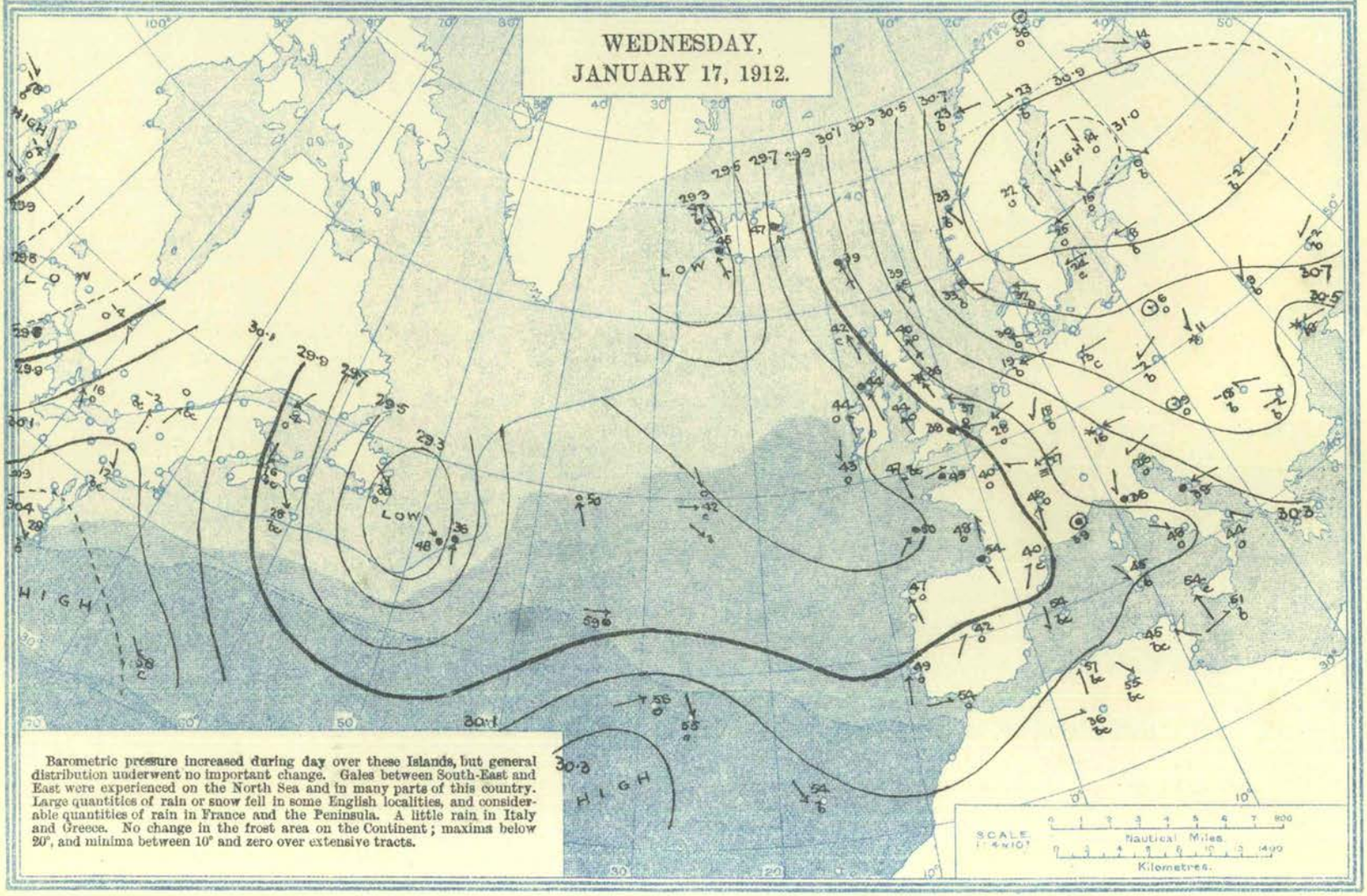
Wind and pressure undergoing little change during day. Severe frost continuing throughout central, eastern, and north-eastern Europe. Maximum temperature as low as 12° or 14° over a large area in Germany and Austria-Hungary; only 7° at Hermanstadt, followed by a night minimum as low as −13°. Thermometer rising to between 45° and 50° in these islands and in most parts of France. Rain fell over the major portion of the United Kingdom, but, as a rule, the measurement was small or moderate. Rain was also experienced in Algeria and at Pesaro and Athens, and some snow in Little Russia.



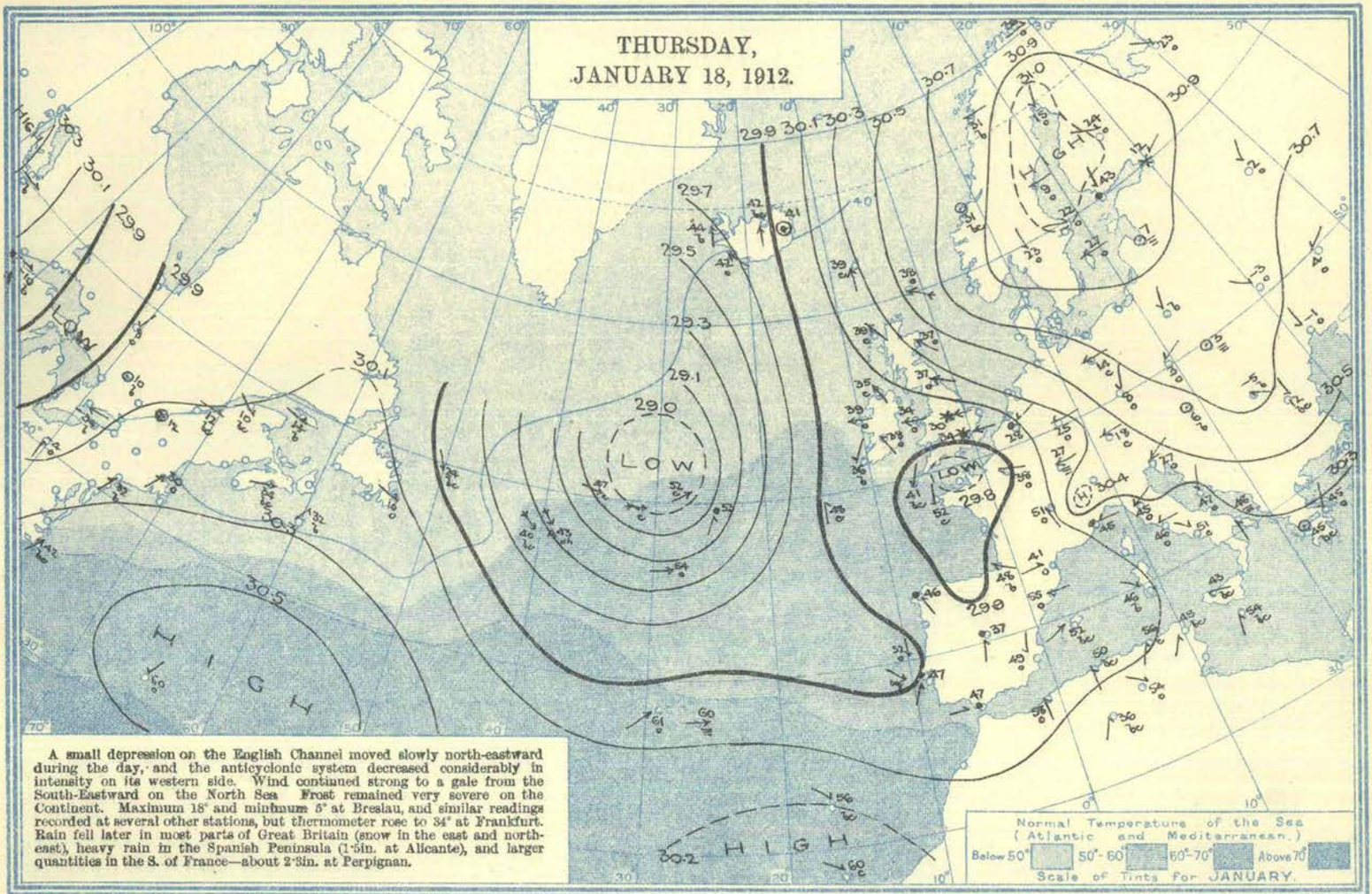
Wind continued strong to a gale from S. or S.E. all day on the western coasts of the British Isles, and increased to a gale by the evening on the north-east coast of Scotland. Frost extended to Holland, and became rather more intense in central Europe. Temperature lower than on the preceding day in the east of England. Nearly an inch of rain fell in the south-west of Ireland, 0·9in. at Donaghadee, 0·8in. at Castlebay, and about 0·58in. in the extreme S.W. of Britain. Smaller amounts in these Islands generally, 0·6in. in Portugal, 1·0 in. at Palermo, and 0·4in. at Athens.



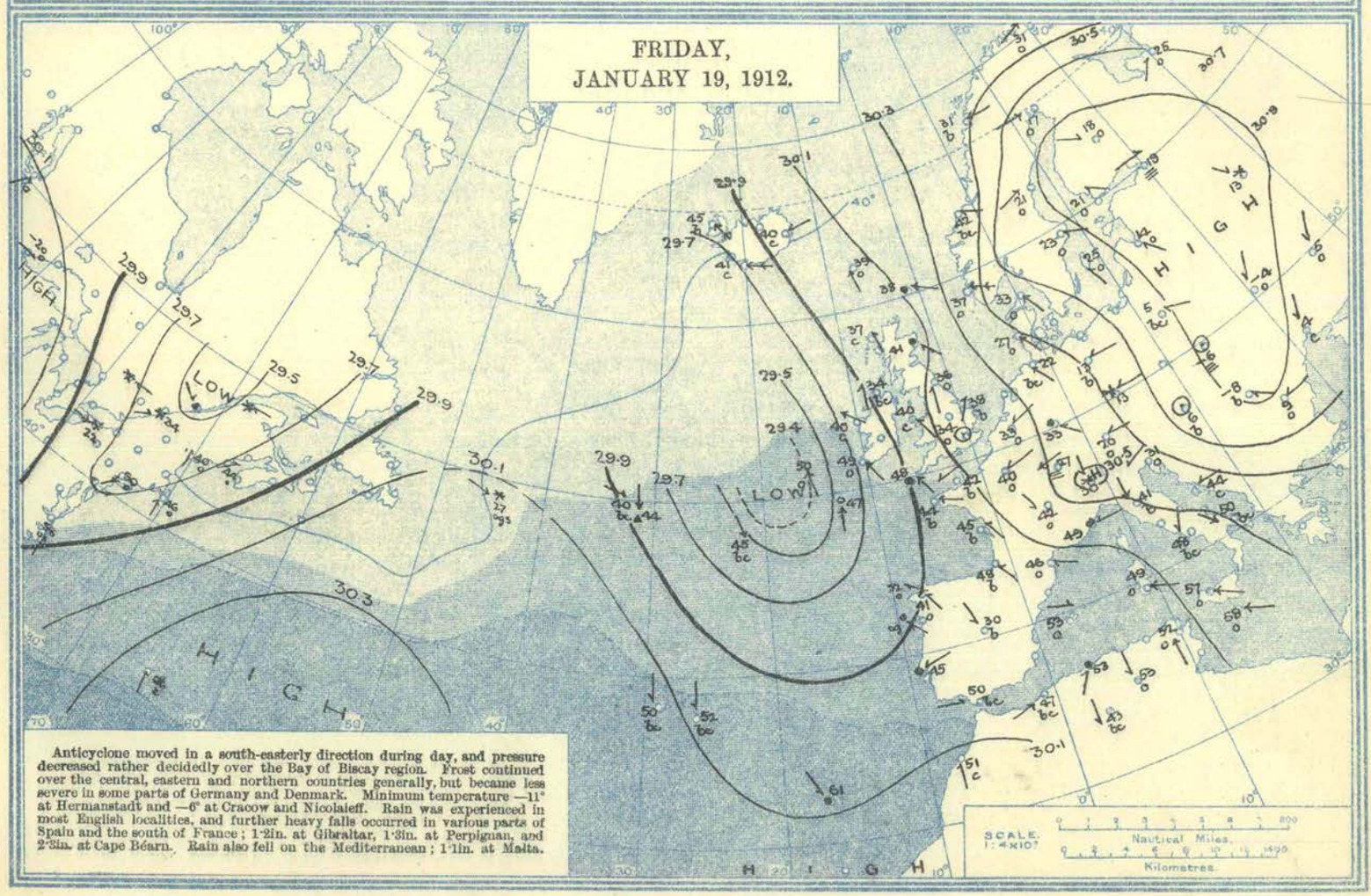
Barometric pressure underwent no change of importance during day, and gradient continued steep over Scotland and the North Sea region. Gales from the South-Eastward experienced in the north and east of these Islands and at Skudesnaes. Heavy rain over a large area in the United Kingdom, in some parts of France, and in the Spanish Peninsula, and smaller amounts in Italy and Greece. Intense frost still prevailed in the central and northern countries of the Continent; minimum at Hermanstadt −18°.



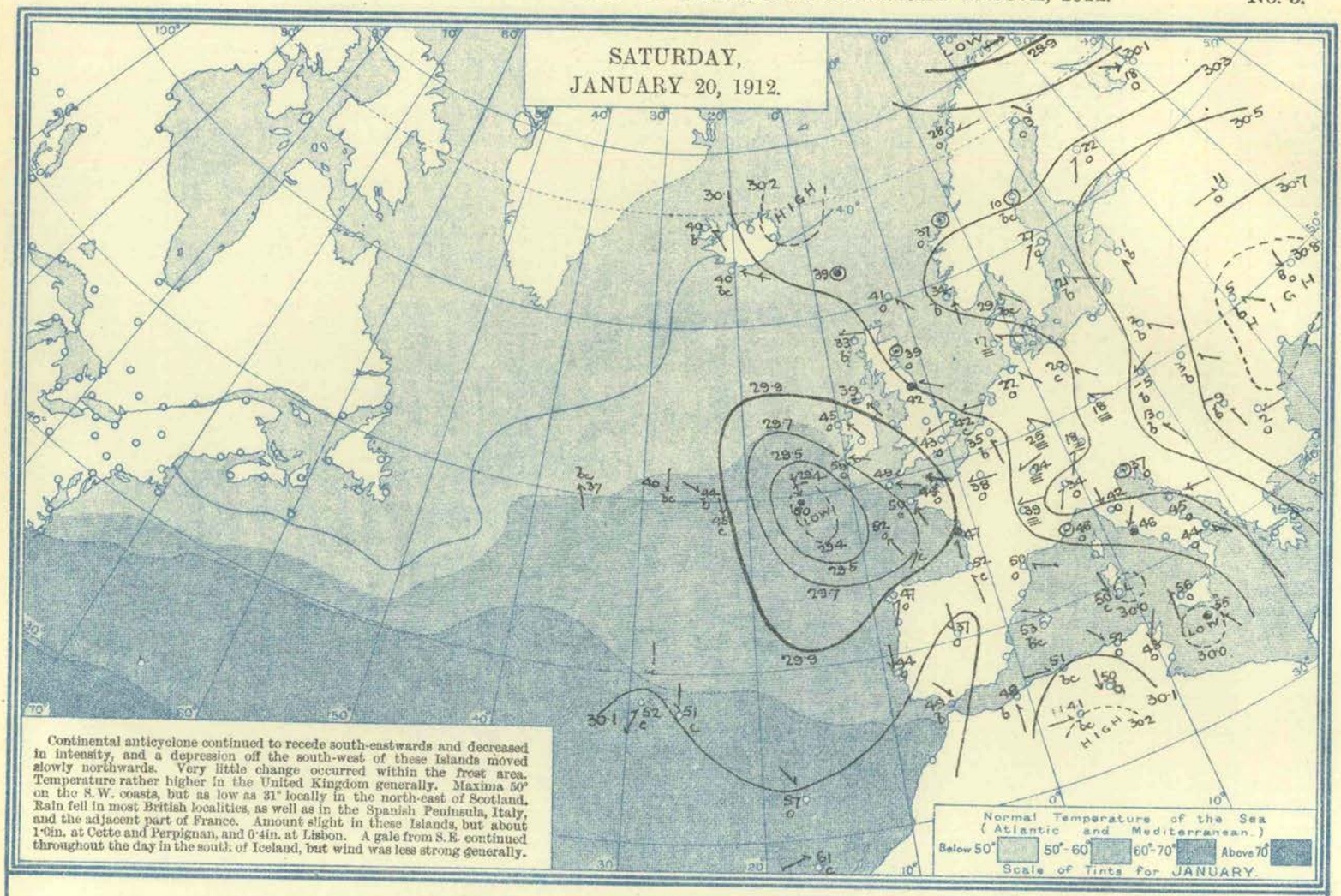
Barometric pressure increased during day over these Islands, but general distribution underwent no important change. Gales between South-East and East were experienced on the North Sea and in many parts of this country. Large quantities of rain or snow fell in some English localities, and considerable quantities of rain in France and the Peninsula. A little rain in Italy and Greece. No change in the frost area on the Continent; maxima below 20°, and minima between 10° and zero over extensive tracts.



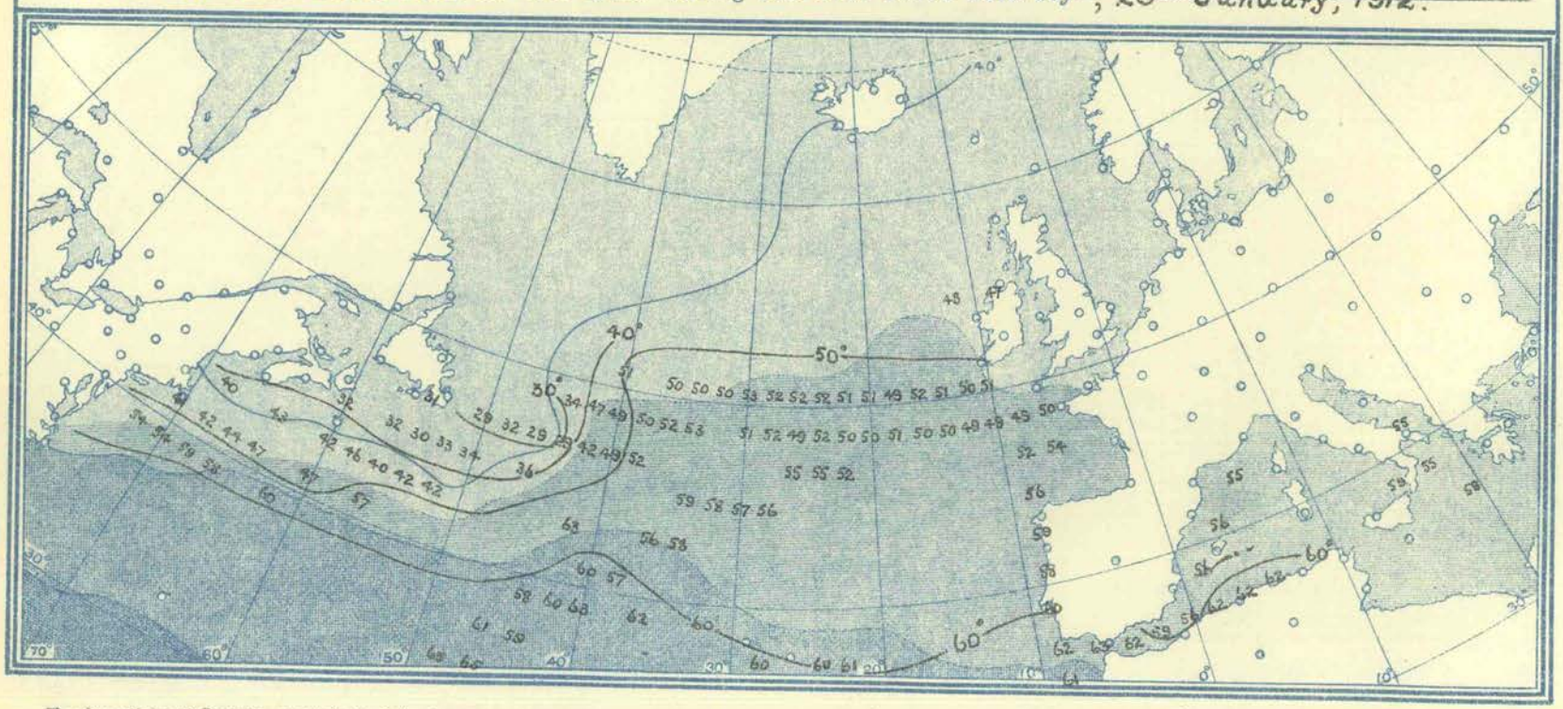
A small depression on the English Channel moved slowly north-eastward during the day, and the anticyclonic system decreased considerably in intensity on its western side. Wind continued strong to a gale from the South-Eastward on the North Sea. Frost remained very severe on the Continent. Maximum 18° and minimum 5° at Breslau, and similar readings recorded at several other stations, but thermometer rose to 34° at Frankfurt. Rain fell later in most parts of Great Britain (snow in the east and north-east), heavy rain in the Spanish Peninsula (1·5in. at Alicante), and larger quantities in the S. of France—about 2·3in. at Perpignan.



Anticyclone moved in a south-easterly direction during day, and pressure decreased rather decidedly over the Bay of Biscay region. Frost continued over the central, eastern and northern countries generally, but became less severe in some parts of Germany and Denmark. Minimum temperature —11° at Hermanstadt and —6° at Cracow and Nicolaieff. Rain was experienced in most English localities, and further heavy falls occurred in various parts of Spain and the south of France; 1·2in. at Gibraltar, 1·3in. at Perpignan, and 2·3in. at Cape Béarn. Rain also fell on the Mediterranean; 1·1in. at Malta.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 20th January, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✱ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* | No. 4. | FOURTH WEEK, SUNDAY, JANUARY 21ST, TO SATURDAY, JANUARY 27TH, 1912. | *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. During the greater part of the period the conditions continued very unsettled over all the southern, eastern and south-western parts of England, with much cloud and frequent falls of rain, while slight precipitation also occurred in the east of Scotland. In Ireland and the extreme north and north-west of Great Britain the weather was mostly fair, and late in the week a marked improvement took place over the whole kingdom. Much mist and fog was experienced from time to time in England.

Temperature was below the average except in the English Channel, the deficit ranging from a small fraction of a degree in England South-East to more than 5° in Scotland North and West. The highest of the maxima, recorded in most places early in the week, varied from 55° in England North-West, and 53° in Ireland South, to 44° in Scotland East and to 42° in Scotland North. On Saturday the temperature in many parts of England did not rise above 34° or 35°. The lowest of the minima, which occurred on the 23rd in various Scottish localities, but more generally on the 27th, ranged from 18° in Scotland East, and 21° in Scotland West to 28° in England South-East, and to 39° in the English Channel. The lowest grass readings were 15° at Balmoral and Hillington, and 17° at Newton Rigg, Llangammarch Wells and Markree Castle.

Mean Temperature of the Sea. On nearly all parts of the British coasts the temperature of the water was higher than during the corresponding week of last year, and also higher than the average. Round Ireland it was lower than at the same time last year, and was below the average. The mean values ranged from about 48° on the south-west coast of England to 40·5° at Cromarty, and to 40° at Burnmouth and Scarborough.

Rainfall exceeded the average in the eastern and central parts of England, and also in the English Channel, but was below it elsewhere. In Scotland North and West, Ireland North and England North-West the fall was very slight. In many localities in the north the precipitation was in the form of snow.

Bright Sunshine was above the normal in Scotland, and also in Ireland North and the western districts of England, below it elsewhere. The percentage of the possible duration ranged from 28 in Ireland North to 17 in England East and North-East, and to 7 in England South-East.

Barometer and Wind. During the earlier half of the week depressions of moderate intensity arrived over the south-western and southern districts from the Atlantic or the Bay of Biscay, and as pressure was relatively high in the North, a moderate current of air from between East and North-East became general over England and Ireland, while in Scotland, owing to a lower pressure in Norway, the wind was Northerly to North-Westerly. Towards the end of the week a great change in the conditions was brought about by the movement of an anticyclone of gradually increasing intensity from Iceland to the north of the United Kingdom, and the dispersal or retreat in a southerly direction of the depression over England. The wind continued Easterly or North-Easterly in the southern districts, but in Scotland and the north of England it became very variable.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 15.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Moderate	Deficient	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate
	Rainfall ...	Very light	Moderate	Heavy	Heavy	Moderate	Heavy	Very light	Very light	Moderate	Very light	Light	Heavy
	Sunshine ...	Abun-dant	Moderate	Moderate	Scanty	Moderate	Scanty	Moderate	Abun-dant	Moderate	Abun-dant	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 8 weeks from Dec. 3rd, 1911.	Warmth ...	2 * 1	2 * 1	3 * 1	3 * 0	3 * 1	3 * 1	3 * 2	3 * 1	4 * 0	4 * 2	3 * 2	6 * 0
	Rainfall ...	2 * 2	5 * 0	5 * 0	7 * 0	6 * 0	7 * 0	6 * 1	6 * 1	5 * 0	5 * 1	5 * 1	7 * 0
	Sunshine ...	3 * 1	2 * 2	1 * 1	2 * 5	2 * 4	1 * 6	2 * 3	3 * 2	1 * 3	4 * 2	1 * 2	1 * 3

PAST SEASONS.

WINTER, 1910-11. Dec. 4th-March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th-June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th-Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd-Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

(22762—24.) Wt. 113—4. 450. 2/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.					Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands.. *p* Baltasound .. S	42	24th	31	25th	38·3	33·4	36·3	—	0	40	*	*	36·9	−0·3	*	*	6	0·38	—	1·8	—	27	—	Baltasound.
a Lerwick..	42	24th	30	26th	38·7	33·6	36·3	− 2·7	0	40	*	*	*	*	*	*	6	0·23	—	2·5	+ 1·4	35	+20	Deerness.
a Stornoway	42	25th	29	27th	39·4	31·3	35·5	− 3·6	0	46	*	*	*	*	*	*	5	0·16	− 0·95	2·3	+ 1·1	31	+15	Stornoway.
a Castlebay, Barra Isd.	45	21st	34	27th	41·4	36·4	39·0	− 2·1	0	21	*	*	*	*	*	*	0	0·00	—	3·4	—	45	—	Castlebay.
b, Main-land. *a* Wick	42	25th	29	24th	38·9	31·0	35·1	− 3·0	0	48	*	*	*	*	*	*	4	0·23	− 0·34	*	*	*	*	*
p Strathpeffer	39	25th	26	21st	36·4	29·3	33·0	− 4·0	0	63	*	*	*	*	*	*	2	0·09	− 0·61	1·3	0·0	17	0	Strathpeffer.
p Glencarron ..	38	21, 23	25	23rd	36·3	26·1	31·4	− 5·2	0	74	*	*	*	*	*	*	0	0·00	− 2·17	*	*	*	*	*
p Fort Augustus..	39	24, 25	23	23rd	36·3	28·7	32·7	− 5·0	0	65	*	*	*	*	*	*	2	0·04	− 1·16	1·0	+ 0·2	13	+ 3	Fort Augustus.
p Fort William ..	39	21st	24	22, 23, 27	35·7	27·1	31·6	− 7·7	0	73	*	*	*	*	*	*	1	0·01	− 2·03	*	*	*	*	*
1. SCOTLAND, E.																								
p Gordon Castle.. S	39	21st	27	24th	37·3	30·3	33·9	− 4·4	0	57	5	23	35·5	+0·6	38·9	+1·3	—	—	—	2·1	—	28	—	Crathes S.
a Nairn	39	25th	23	21st	35·9	28·6	32·4	− 5·0	0	67	*	*	*	*	*	*	6	0·73	+ 0·25	0·7	—	9	—	*Gordon Castle.*
a Aberdeen ..	42	21st	31	23rd	39·0	33·7	36·5	− 1·3	0	39	*	*	*	*	41·1	+1·8	6	0·31	− 0·12	1·4	—	18	—	Nairn.
a Balmoral ..	44	25th	18	23rd	41·4	26·1	34·1	+ 0·1	0	55	7	15	*	*	*	*	5	0·16	− 0·35	2·9	+ 1·1	38	+25	Aberdeen.
p Crieff	40	21, 25, 26	24	23rd	38·3	29·0	33·8	− 3·4	0	57	*	*	*	*	*	*	3	0·12	− 0·56	*	*	*	*	Balmoral.
a Leith .. .. .. S	41	21, 25	30	26th	39·4	33·0	36·3	− 2·9	0	40	*	*	*	*	*	*	3	0·09	− 0·79	2·4	—	31	—	Balruddery.
p West Linton .. S	38	21, 22	23	23rd	35·6	28·9	32·4	− 3·8	0	67	*	*	*	*	*	*	5	0·34	− 0·03	*	*	*	*	*
p Marchmont .. S	39	21st	29	22, 24	37·3	31·4	34·5	− 2·0	0	53	4	25	35·6	+0·1	*	*	5	0·38	—	1·2	—	15	—	*West Linton.*
																	7	1·08	+ 0·57	0·7	− 0·9	9	−11	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	41	21, 24	28	27th	40·0	32·0	36·2	− 2·0	0	41	4	22	35·9	+0·2	39·9	+0·8	6	1·88	+ 1·35	1·2	—	15	—	Cockle Park.
a Shields	43	21st	31	23, 24, 27	40·6	32·7	36·8	− 1·8	0	36	*	*	*	*	*	*	5	0·86	+ 0·52	0·2	− 0·8	3	−10	*Newcastle.*
p Durham	45	21st	23	27th	38·9	30·9	35·1	− 2·1	0	48	4	21	*	*	*	*	5	1·06	+ 0·72	1·2	− 0·4	15	− 5	Durham.
a, North .. *p* Rounton	47	21st	25	27th	38·4	30·2	34·5	− 2·5	0	53	4	21	37·1	*	*	*	6	0·68	+ 0·29	*	*	*	*	Rounton.
a West Witton	46	21st	28	24th	38·9	31·7	35·4	—	0	46	5	25	36·2	—	40·4	—	5	0·26	—	*	*	*	*	*West Witton.*
p Scarborough ..	46	21st	34	25, 27	41·4	36·1	38·9	+ 0·4	0	22	*	*	*	*	*	*	5	0·75	+ 0·31	1·5	—	19	—	Scarborough.
p York	48	21st	28	27th	40·9	32·3	36·8	− 1·4	0	36	*	*	38·6	+1·4	42·5	+1·6	4	0·28	− 0·09	1·7	+ 0·5	21	+ 6	York.
b, South .. *a* Spurn Head ..	42	21st	32	27th	40·1	34·4	37·4	− 1·2	0	32	6	21	38·4	+2·3	43·1	+1·2	2	0·33	+ 0·09	1·3	—	16	—	*Hull.*
a Lincoln	41	26th	29	22nd	39·1	32·3	35·8	− 1·6	0	43	*	*	37·0	+0·5	42·1	+1·6	2	0·25	− 0·11	*	*	*	*	Lincoln.
a Fulbeck	42	21, 26	27	27th	39·4	31·3	35·5	− 2·1	0	46	3	21	38·5	+1·6	43·8	+1·5	4	0·34	− 0·04	1·1	—	13	—	Rauceby.
																				1·5	—	18	—	Skegness.
3. ENGLAND, E.											2	30	40·0	+3·4	43·3	+2·3	—	—	—	1·7	—	20	—	*Lowestoft.*
p Cromer	43	21st	32	21, 25, 27	40·3	33·4	37·0	+ 0·1	0	35	*	*	*	*	*	*	6	0·68	—	2·0	—	24	—	Cromer.
p Hillington	44	21st	26	27th	40·0	31·7	36·0	− 1·1	0	42	4	15	*	*	*	*	6	0·80	+ 0·35	1·2	− 0·5	15	− 6	Hillington.
a, North .. *a* Yarmouth	47	24th	32	22, 23	41·1	36·0	38·7	+ 1·0	0	23	*	*	40·1	+4·1	45·0	+3·2	3	0·53	+ 0·17	1·6	—	19	—	Yarmouth
a Norwich	45	24th	31	27th	40·9	34·7	37·9	+ 0·7	0	29	1	22	39·5	*	*	*	6	0·58	—	1·2	—	15	—	*Norwich.*
p Geldeston	48	24th	30	27th	42·1	34·6	38·5	+ 0·5	0	27	*	*	*	*	*	*	5	0·54	+ 0·20	1·4	− 0·5	17	− 6	Geldeston.
p Cambridge	42	21, 25	29	27th	40·4	33·0	36·9	− 0·8	0	36	2	22	39·9	+3·2	44·0	+2·2	4	1·17	+ 0·86	1·8	0·0	21	0	Cambridge.
a Felixstowe	46	24th	32	27th	42·4	35·7	39·2	+ 0·9	1	23	*	*	*	*	*	*	4	0·61	—	1·6	—	19	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	46	24th	33	26th	42·1	36·9	39·6	+ 1·4	0	19	2	28	42·7	+4·7	46·0	+2·5	4	0·51	—	1·1	—	13	—	Clacton.
a Rothamsted	44	25th	29	27th	40·4	33·7	37·2	− 0·2	0	34	*	*	*	*	*	*	4	0·99	+ 0·53	1·8	+ 0·1	21	+ 1	Rothamsted.
a Shoeburyness	48	24th	33	27th	42·4	36·6	39·6	+ 1·1	1	20	2	27	42·0	+4·2	*	*	4	0·83	+ 0·55	1·0	—	12	—	*Southend.*
p Tottenham	46	23rd	30	27th	42·4	36·0	39·3	+ 0·5	1	22	2	29	—	—	45·6	+2·6	3	1·08	—	0·4	—	5	—	Tottenham.
4. MIDLAND COUNTIES.											4	26	36·8	+0·1	42·5	+1·7	—	—	—	1·5	—	19	—	*Huddersfield.*
a Harrogate	45	21st	28	24, 27	38·1	31·4	34·9	− 1·9	0	50	5	22	37·3	+0·1	40·7	+1·1	3	0·33	− 0·17	1·9	—	24	—	Harrogate.
a Bawtry	44	21st	28	27th	39·4	31·3	35·5	− 2·2	0	46	7	18	37·4	*	41·7	*	4	0·33	− 0·04	2·0	+ 0·6	24	+ 7	Worksop.
p Buxton	43	22nd	23	27th	37·9	31·3	34·7	− 0·7	0	51	7	22	36·2	+0·4	43·4	+1·7	2	0·10	− 0·94	2·5	—	30	—	*Buxton.*
a, East .. *a* Nottingham	42	25th	29	22, 23, 27	38·7	32·0	35·5	− 2·3	0	46	5	26	36·8	+1·4	41·0	+1·7	4	0·20	− 0·20	1·0	—	12	—	Nottingham.
p Birmingham, Edgbsn.	42	21st	27	22nd	36·7	30·4	33·7	− 4·0	0	58	5	23	38·2	−0·3	44·9	+1·1	4	0·63	+ 0·20	1·4	—	17	—	Birmingham.
a Raunds	42	21st	28	27th	39·0	31·9	35·6	− 1·6	0	45	2	23	39·1	—	—	—	3	0·63	—	*	*	*	*	Raunds.
a Oxford	43	25th	29	27th	38·9	33·4	36·3	− 2·6	0	40	1	23	*	*	*	*	4	1·01	+ 0·62	1·7	0·0	20	0	Oxford.
											4	27	36·8	+0·5	42·4	+1·3	—	—	—	2·1	—	26	—	Sheffield.
a Cheadle	40	26th	27	22nd	36·9	30·6	33·9	− 3·0	0	57	5	26	*	*	*	*	5	0·21	− 0·33	*	*	*	*	Cheadle.
p Shrewsbury	46	24, 26	24	27th	44·9	28·7	37·1	− 1·4	8	51	3	25	*	*	*	*	3	0·42	—	*	*	*	*	Shrewsbury.
b, West .. *a* Hereford	38	25, 26	26	27th	35·7	30·6	33·3	− 5·1	0	61	4	19	*	*	*	*	3	0·65	+ 0·15	*	*	*	*	Hereford.
a Cirencester	44	26th	28	22nd	38·1	30·9	34·6	− 2·9	0	52	1	27	39·1	—	43·7	—	3	0·69	+ 0·19	2·0	+ 0·3	24	+ 4	Cirencester.
a Bath	46	21st	29	27th	40·4	34·1	37·4	− 2·1	0	32	*	*	41·1	+1·9	45·2	+1·2	3	0·90	+ 0·38	1·0	—	12	—	Bath.
5. ENGLAND, S.E.																								
p Kew	45	21, 24	31	26, 27	41·9	36·0	39·1	+ 0·1	0	20	1	25	44·3	+6·3	45·5	+2·2	—	—	—	*	*	*	*	Canterbury.
a Marlborough	41	25th	28	27th	38·0	32·9	35·9	− 1·6	0	43	2	26	41·3	+4·2	45·6	+2·6	4	1·12	+ 0·75	0·1	− 1·4	1	−17	Kew.
a Margate	49	24th	36	27th	43·4	39·7	41·6	+ 2·5	4	9	2	21	*	*	*	*	4	0·80	+ 0·25	0·9	− 0·6	11	− 7	Marlborough.
a Wisley, Surrey ..	46	24th	31	27th	41·0	36·6	38·9	− 0·5	0	22	—	—	42·3	+4·1	44·3	+2·8	4	0·51	+ 0·15	0·6	− 1·1	7	−13	Margate.
a Swarraton	45	24th	29	27th	41·6	35·6	38·7	+ 1·1	0	23	2	21	41·5	+4·2	44·9	+2·7	5	1·08	—	0·4	—	5	—	Wisley.
a Tunbridge Wells ..	47	24th	31	27th	41·3	36·3	38·9	+ 1·2	0	22	3	27	43·5	+5·5	46·5	+3·1	5	0·89	+ 0·34	0·9	—	11	—	Worthing.
a Dungeness	49	24th	36	27th	45·0	40·9	43·0	+ 3·8	12	3	3	26	41·9	+5·3	*	*	6	0·82	+ 0·27	0·6	− 1·0	7	−12	Tunbridge Wells.
p Hastings..	48	24th	30	27th	44·4	38·6	41·6	+ 2·0	7	14	*	*	*	*	*	*	3	0·58	+ 0·18	0·8	—	9	—	Littlestone.
p Southampton	49	21st	31	27th	44·0	37·3	40·8	+ 0·6	6	19	1	26	43·2	—	46·0	—	6	0·86	+ 0·36	0·9	− 1·2	11	−14	*Hastings.*
a Ventnor	48	21, 24	35	27th	44·9	40·1	42·6	+ 1·1	12	5	2	26	*	*	*	*	4	0·93	+ 0·38	0·4	− 1·4	5	−17	Southampton.
											*	*	*	*	*	*	6	0·66	+ 0·11	0·5	− 1·5	6	−18	Ventnor.
											3	29	43·3	+4·1	46·7	+2·4	—	—	—	0·5	—	6	—	*Portsmouth.*
											*	*	44·4	—	46·8	—	—	—	—	0·6	− 1·3	7	−16	Eastbourne.
LONDON.											*	*	42·7	—	45·0	—	—	—	—	0·5	—	6	—	*Bournemouth.*
											1	30	*	*	45·6	—	—	—	—	0·7	− 1·2	8	−14	*Brighton.*
a Westminster	47	24th	34	27th	42·6	38·3	40·5	+ 1·4	2	14	1	28	*	*	*	*	4	1·20	+ 0·83	0·2	− 0·5	2	− 6	*Westminster.*
a Greenwich	48	24th	32	27th	41·9	36·7	39·4	+ 0·7	0	18	4	25	*	*	*	*	4	0·88	+ 0·53	0·7	− 0·8	8	− 10	*Greenwich.*
a Hampstead	43	21, 24	30	27th	38·7	35·6	37·2	—	0	34	3	24	*	*	*	*	5	1·27	—	0·4	—	5	—	*Hampstead.*
a Camden Square ..	47	24th	31	27th	41·7	36·9	39·4	—	0	18	1	27	*	*	*	*	4	1·22	—	0·4	—	5	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. .. S	43	21st	21	27th	38·0	27·4	32·9	− 6·1	0	64	*	*	*	*	*	*	1	0·08	− 0·93	*	*	*	*	*
p Glasgow	42	21st	29	23rd	38·3	33·6	36·0	− 2·5	0	42	4	23	*	*	*	*	1	0·17	− 0·53	1·5	+ 0·6	19	+ 8	Glasgow.
p Rothesay	44	21st	27	27th	40·3	32·0	36·3	− 3·2	0	40	*	*	*	*	42·7	+0·8	1	0·26	− 0·69	*	*	*	*	*
a Kilmarnock ..	42	21st	22	27th	38·1	27·6	33·1	− 6·4	0	62	*	*	*	*	*	*	1	0·20	—	1·8	—	23	—	*Kilmarnock.*
a Colmonell	45	21st	25	27th	40·9	29·1	35·2	− 3·9	0	48	5	21	*	*	*	*	2	0·03	− 0·94	*	*	*	*	*
p Dumfries	47	22nd	29	22, 23	40·3	31·9	36·3	− 2·1	0	40	4	23	36·7	—	41·3	—	1	0·05	− 0·70	0·5	—	6	—	*Dumfries.*
p Cally, Gatehouse ..	45	21, 22	28	26th	41·0	31·3	36·3	− 1·7	0	40	*	*	*	*	*	*	0	0·00	− 1·00	*	*	*	*	*
b I. OF MAN.																								
p Douglas	47	21st	33	26, 27	41·0	34·7	38·0	− 2·7	0	28	4	29	*	*	*	*	2	0·03	− 0·74	1·7	− 0·1	21	− 1	Douglas.
											6	19	36·8	+0·9	42·6	+1·6	—	—	—	0·7	—	9	—	*Burnley.*
											5	23	*	*	*	*	—	—	—	2·1	—	26	—	Hoylake.
7. *a*, ENGLAND, N.W.											5	18	38·0	—	43·7	—	1	0·02	− 0·59	1·5	—	19	—	Aspatria.
p Aspatria	45	21st	28	24th	39·1	31·4	35·4	− 2·5	0	46	6	17	37·8	+0·4	41·2	+1·0	5	0·14	− 0·60	1·2	− 0·3	15	− 3	Newton Rigg.
p Newton Rigg	48	21st	27	23, 24	38·7	30·7	34·9	− 1·9	0	50	4	25	*	*	*	*	2	0·04	− 0·87	1·2	− 0·1	15	− 1	Stonyhurst.
p Stonyhurst	44	21st	29	27th	40·0	32·6	36·5	− 1·4	0	39	*	*	*	*	*	*	1	0·01	− 0·59	1·6	+ 0·2	20	+ 2	Blackpool.
p Blackpool	46	21, 22	28	26, 27	41·1	31·3	36·4	− 2·3	0	39	*	*	*	*	*	*	2	0·03	− 0·64	0·9	+ 0·1	11	+ 1	*Prestwich.*
p Manchester, Prestwich	43	21st	27	27th	40·1	32·7	36·6	− 1·6	0	38	*	*	*	*	*	*	1	0·02	− 0·45	2·4	—	30	—	*Liverpool.*
a Liverpool (Bidston) ..	45	21st	28	23rd	39·6	21·3	35·6	− 4·2	0	45	*	*	*	*	*	*	1	0·02	− 0·45	2·4	—	30	—	*Liverpool.*
a Hawarden Bridge ..	46	21st	25	22, 23	39·1	30·0	34·7	− 5·5	0	51	7	19	35·6	−0·3	40·9	+1·0	2	0·06	− 0·31	1·7	+ 0·2	21	+ 3	*Southport.*
											1	30	37·7	+0·9	44·2	+2·1	—	—	—	0·6	—	7	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	49	21st	30	27th	43·6	34·6	39·3	− 2·1	4	28	*	*	*	*	*	*	0	0·00	− 0·55	2·9	+ 1·2	35	+14	Llandudno.
a Holyhead	49	21st	33	27th	43·0	36·1	39·7	− 1·9	3	22	*	*	*	*	*	*	0	0·00	− 0·64	4·3	—	52	—	Aberdovey.
p Bettws-y-Coed ..	55	21st	28	27th	42·7	32·6	37·9	− 2·6	2	35	4	25	37·9	−0·4	44·4	+1·3	1	0·04	—	1·8	—	22	—	Bettws-y-Coed.

For notes see opposite page

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	42	21st	22	27th	36·7	29·1	33·1	- 4·4	0	62	2	17	39·3	+0·7	45·7	+1·8	4	0·90	—	4·5	—	54	—	Aberystwyth.
a Pembroke	47	21st	32	27th	42·4	37·0	39·8	- 2·7	1	18	°	°	°	°	°	°	4	0·27	- 0·45	1·4	—	17	—	Llangammarch
p Cardiff	41	21st	28	27th	38·0	32·4	35·3	- 4·4	0	47	3	26	39·3	+1·4	41·9	+2·2	5	0·76	- 0·02	1·9	0·0	23	0	Pembroke.[Wells
																				2·0	—	*24*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	42	21st	29	27th	38·9	33·9	36·5	- 3·2	0	39	3	25	°	°	°	°	4	0·78	+ 0·18	*1·0*	—	*12*	—	*Clifton.*
a Shaftesbury	45	21st	28	27th	39·3	34·0	36·8	- 0·9	0	36	°	°	40·3	°	°	°	4	0·67	+ 0·09	°	°	°	°	Shaftesbury.
a Arlington	46	21st	30	27th	41·6	34·1	38·0	- 1·2	0	28	°	°	44·7	°	°	°	3	0·77	- 0·23	2·0	+ 0·1	23	+ 1	Newquay.
a Cullompton	45	21st	30	27th	41·1	34·7	38·0	- 1·9	0	28	1	28	42·8	°	°	°	5	0·77	+ 0·07	1·2	- 0·4	14	- 5	Cullompton.
a Portland	48	21, 24	35	27th	45·1	40·3	42·8	+ 1·1	13	5	°	°	°	°	°	°	4	0·45	—	*0·8*	—	*9*	—	*Weymouth.*
p Plymouth	50	21st	35	25th	45·9	39·0	42·6	+ 0·4	17	8	4	26	44·1	+3·5	°	°	4	0·47	- 0·26	1·3	0·0	21	0	Plymouth.
p Falmouth	49	21st	36	27th	45·7	41·0	43·4	+ 0·1	14	3	°	°	°	°	°	°	3	0·02	+ 0·01	1·6	- 0·4	18	- 5	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	47	21st	30	27th	41·4	34·6	38·1	- 2·8	0	27	°	°	°	°	°	°	1	0·02	- 0·56	°	°	°	°	° °
a Blacksod Point ..	47	21st	32	27th	41·1	35·1	38·2	- 4·3	0	27	°	°	°	°	°	°	0	0·00	- 1·06	°	°	°	°	° °
v Markree Castle ..	48	21st	22	25th	40·9	23·0	34·7	- 4·8	0	51	6	17	39·6	- 0·3	45·1	+0·8	0	0·00	- 0·81	2·9	+ 1·4	36	+17	Markree Castle.
a Birr Castle	49	21st	31	23, 24	42·0	33·4	37·9	- 1·9	0	29	°	°	°	°	°	°	0	0·00	- 0·60	*2·2*	*+ 0·4*	*27*	*+ 5*	*Birr Castle.*
b, East .. *p* Armagh	46	21st	26	25th	39·1	29·7	34·6	- 5·1	0	52	5	19	39·3	- 0·4	44·0	+0·9	1	0·01	- 0·55	1·7	+ 0·1	21	+ 1	Armagh.
a Donaghadee	45	21st	31	22nd	41·3	36·0	38·8	- 1·7	0	22	°	°	°	°	°	°	0	0·00	- 0·59	°	°	°	°	° °
											5	22	40·8	+1·1	45·2	+1·8	°	°	°	—	—	—	—	Trinity Coll.
10. IRELAND, S.											4	25	°	°	°	°	°	°	°	0·8	- 1·2	10	-15	Phœnix Park.
a. East .. *p* Dublin, City	47	21st	33	22nd	42·6	35·4	39·1	- 2·6	2	24	1	30	°	°	°	°	4	0·22	- 0·28	°	°	°	°	Dublin City.
a Kilkenny	49	21st	30	27th	42·6	34·1	38·5	- 1·7	2	29	°	°	°	°	°	°	2	0·06	- 0·68	°	°	°	°	° °
a Waterford	52	21st	33	23, 24, 27	44·1	36·1	40·3	- 0·9	6	24	°	°	°	°	°	°	2	0·27	- 0·61	°	°	°	°	° °
a Birr Castle	49	21st	31	23, 24	42·0	33·4	37·9	- 1·9	0	29	°	°	°	°	°	°	0	0·00	- 0·60	2·2	+ 0·4	27	+ 5	Birr Castle.
a Foynes	45	21st	28	27th	40·7	33·4	37·2	- 4·9	0	34	°	°	°	°	°	°	3	0·06	- 0·74	°	°	°	°	° °
b, West .. *a* Cahir	50	21st	30	23rd	42·9	34·6	38·9	- 2·3	3	28	°	°	°	°	°	°	1	0·05	—	°	°	°	°	° °
a Killarney	53	21st	27	27th	43·6	33·7	38·9	- 3·5	4	32	°	°	°	°	°	°	2	0·11	- 1·26	°	°	°	°	° °
a Valencia	50	21st	32	27th	45·4	37·6	41·7	- 2·7	10	19	°	°	°	°	°	°	3	0·50	- 0·74	2·8	+ 1·0	33	+12	Valencia.
a Roche's Point	50	21st	33	27th	44·4	39·1	41·9	- 1·5	7	13	°	°	°	°	°	°	6	0·40	- 0·60	1·1	—	13	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	52	25th	39	27th	48·9	43·4	46·3	+ 0·8	30	0	°	°	°	°	°	°	3	1·19	+ 0·51	1·8	- 0·3	21	- 4	Scilly.
a Jersey, St. Aubins ..	52	24, 25	39	27th	48·6	41·4	45·1	+ 2·5	24	2	°	°	°	°	°	°	5	0·71	+ 0·05	2·3	- 0·1	26	- 1	St. Heliers.
a Guernsey (Villa Carey)	52	21st	39	27th	47·9	41·3	44·7	+ 1·4	22	2	1	29	45·9	+3·8	48·6	+2·7	5	0·56	- 0·14	1·6	- 0·3	18	- 4	Guernsey.*

Additional Sunshine Means :—*Bognor, 0·7 hrs. 8 %; Newcastle (Pendower), 0·8 hrs. 10 %; Ramsgate, 0·9 hrs. 11 %; Rhyl, 3·5 hrs. 42 %; Salcombe, 0·8 hrs. 9 %; Tenby, 1·8 hrs. (- 0·3) 21 % (- 3 %); Torquay, 0·8 hrs. (- 1·3) 9 % (- 15 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, January 27th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from. Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	44	43	43·9	+1·0	SCOTLAND, W. ..	Lamlash	45	44	44·1	-0·4
	Kirkwall	42	42	42·0	+1·4		Ballantrae .. .	44	41	42·3	+0·2
	Wick	45	44	44·2	0·0	ENGLAND, N.W. ..	Port Erin	46	43	44·8	-0·5
	Cromarty	41	40	40·5	+1·1		Newquay	48	48	48·0	+2·4
SCOTLAND, E. ..	Pennan Bay	44	43	43·3	+3·5	ENGLAND, S.W. ..	Scilly	49	47	48·4	—
	Aberdeen, Cove Bay	44	43	43·6	+4·4		Plymouth‡	48	48	47·9	+1·2
SCOTLAND, N.E. ..	Burnmouth, Berwick	40	40	40·0	+0·4		Salcombe	49	46	48·1	+2·1
	Scarborough	42	38	40·0	-0·2	IRELAND, N.W. ..	Sheephaven	45	45	45·0	+0·3
ENGLAND, E. ..	Shipwash Lightship	47	42	44·8	+5·1		Teelin	45	39	42·5	-0·8
	Margate‡	44	43	43·5	+4·1	IRELAND, S.W. ..	Cleggan	44	40	41·7	-2·3
ENGLAND, S.E. ..	Eastbourne‡	46	43	45·0	+4·7	IRELAND, E.	Seafield	47	43	44·8	-0·4
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked Ş is supplied by the Scottish Meteorological Society. Stations marked **S** are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FOURTH WEEK—January 21st to January 27th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	42	23	37·4	29·6	33·7	− 5·2	0	− 8	58	+ 26	3	− 3	0·11	−1·52	1·8	+0·9	24	+12
Eastern.																		
1. SCOTLAND, EAST ...	44	18	38·0	30·1	34·2	− 4·4	0	− 10	55	+ 19	5	0	0·40	−0·21	1·9	+0·2	25	+ 3
2. ENGLAND, N.E.	48	23	39·9	32·5	36·3	− 3·1	0	− 10	40	+ 10	4	+ 1	0·72	+0·38	1·4	−0·3	17	− 4
3. ENGLAND, EAST ...	48	26	41·1	34·4	38·0	− 0·9	0	− 10	28	− 6	5	+ 1	0·76	+0·38	1·4	−0·7	17	− 8
4. MIDLAND COUNTIES ...	46	24	38·8	31·4	35·3	− 3·8	0	− 12	47	+ 14	4	0	0·55	+0·05	1·6	−0·1	19	− 1
5. ENGLAND, S.E.	49	28	42·6	37·4	40·1	− 0·2	2	− 11	17	− 8	5	+ 2	0·83	+0·32	0·6	−1·2	7	−14
Western.																		
6. SCOTLAND, WEST ...	47	21	39·7	31·0	35·5	− 5·2	0	− 13	46	+ 23	1	− 5	0·10	−1·02	1·6	+0·3	20	+ 3
7. ENGLAND, N.W.	55	25	40·7	32·3	36·7	− 3·6	0	− 11	37	+ 13	2	− 2	0·04	−0·71	2·1	+0·7	26	+ 8
8. ENGLAND, S.W.	50	22	41·5	35·6	38·6	− 3·3	0	− 18	24	+ 6	4	− 1	0·68	−0·17	2·1	+0·3	24	+ 4
9. IRELAND, NORTH ...	49	22	41·0	32·8	37·1	− 4·0	0	− 15	34	+ 13	1	− 4	0·01	−0·80	2·3	+0·8	28	+10
10. IRELAND, SOUTH ...	53	27	43·1	35·3	39·4	− 3·5	3	− 19	26	+ 11	3	− 2	0·19	−0·65	1·7	−0·1	20	− 1
11. ENGLISH CHANNEL ...	52	39	48·5	42·0	45·4	+ 0·7	24	− 2	0	− 6	4	− 1	0·82	+0·17	1·9	−0·3	22	− 4

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 8 Weeks, December 3rd, 1911, to January 27th, 1912.

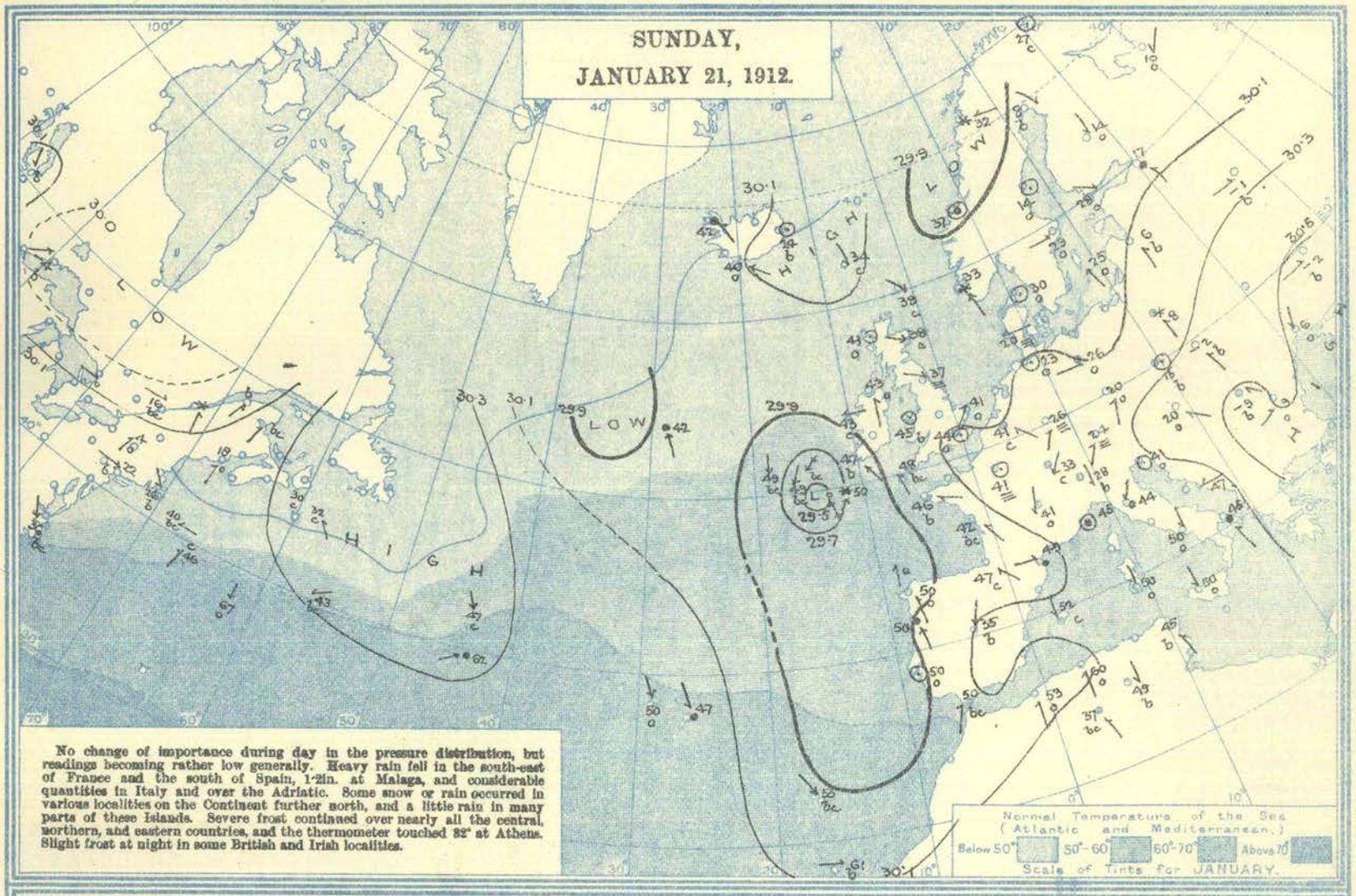
0. SCOTLAND, NORTH ...	57	22	*	*	*	*	77	+ 16	183	− 76	45	+ 3	9·06	−1·55	0·8	+0·1	12	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	56	13	*	*	*	*	48	− 10	249	− 67	42	+ 9	6·76	+1·79	1·1	0·0	16	0
2. ENGLAND, N.E	55	23	*	*	*	*	72	+ 6	194	− 65	42	+14	6·22	+2·58	1·1	−0·2	15	− 3
3. ENGLAND, EAST ...	55	26	*	*	*	*	108	+ 36	140	−157	43	+12	6·46	+3·14	1·1	−0·4	14	− 5
4. MIDLAND COUNTIES ...	56	22	*	*	*	*	115	+ 33	183	−116	43	+13	8·65	+4·58	1·2	−0·1	16	− 1
5. ENGLAND, S.E.	54	22	*	*	*	*	155	+ 45	97	−121	42	+12	9·48	+5·13	1·1	−0·4	14	− 5
Western.																		
6. SCOTLAND, WEST ...	55	21	*	*	*	*	91	+ 3	163	− 40	46	+ 8	12·02	+2·93	1·0	−0·1	14	− 1
7. ENGLAND, N.W.	58	21	*	*	*	*	114	+ 26	137	− 71	43	+10	9·09	+3·35	1·1	0·0	15	0
8. ENGLAND, S.W.	57	22	*	*	*	*	187	+ 40	72	− 82	47	+12	12·79	+5·40	1·4	−0·1	18	− 1
9. IRELAND, NORTH ...	58§	22	*	*	*	*	117	+ 39	118	− 62	41	+ 2	9·02	+2·47	1·3	0·0	17	0
10. IRELAND, SOUTH ...	57	26	*	*	*	*	191	+ 18	87	− 48	48	+11	11·80	+4·03	1·5	−0·1	20	− 1
11. ENGLISH CHANNEL ...	57	35	*	*	*	*	320	+ 90	0	− 50	44	+ 5	9·81	+3·55	1·6	−0·3	20	− 4

THE YEAR.—Aggregates, &c., for the Period of 4 Weeks, December 31st, 1911, to January 27th, 1912.

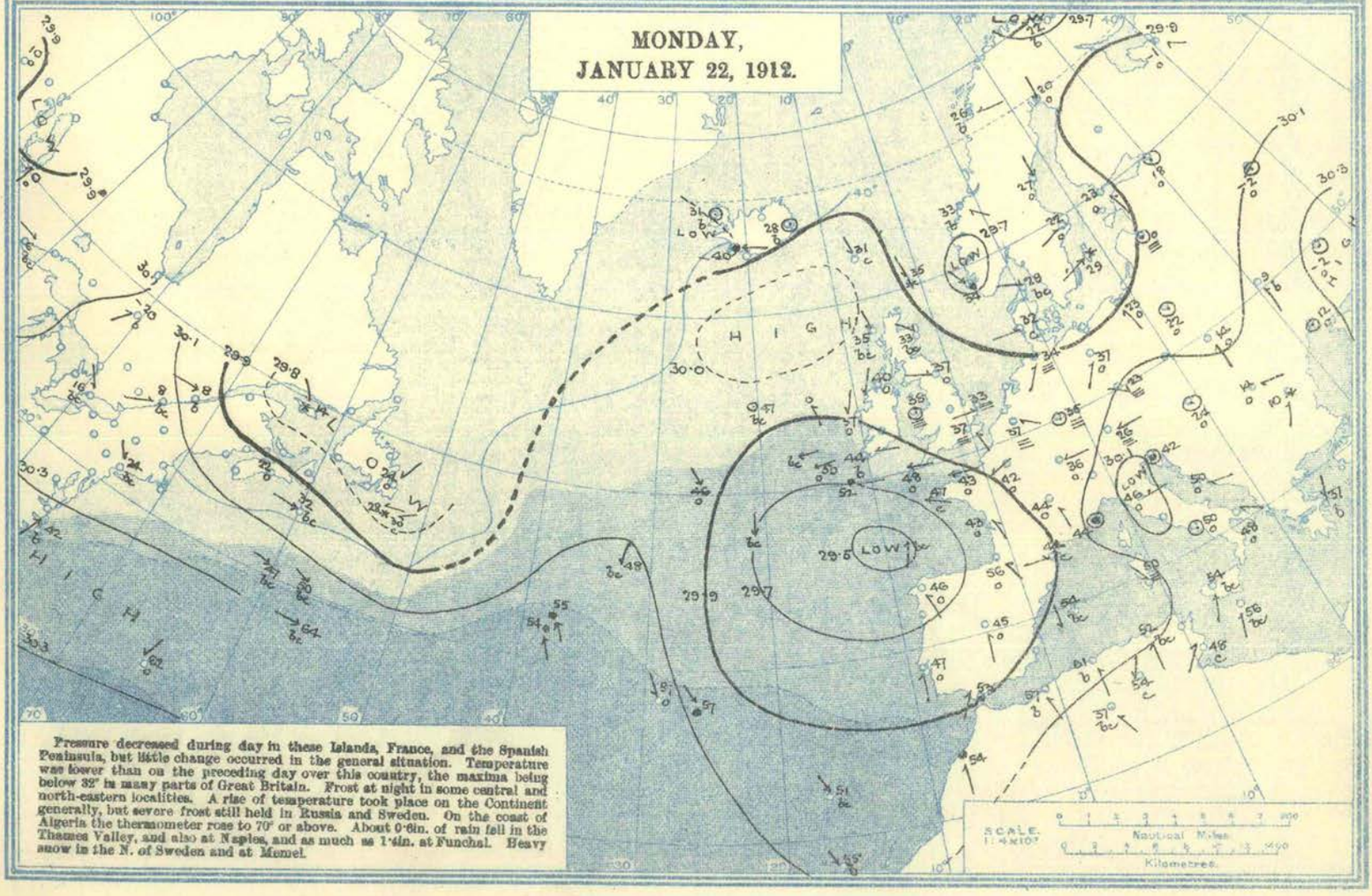
0. SCOTLAND, NORTH ...	57	22	*	*	*	*	24	− 3	115	− 22	20	− 1	3·32	−1·99	0·9	+0·1	13	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	56	13	*	*	*	*	11	− 17	143	− 17	20	+ 4	2·59	+0·26	1·0	−0·3	14	− 4
2. ENGLAND, N.E.	55	23	*	*	*	*	22	− 9	111	− 23	19	+ 5	2·83	+1·21	0·7	−0·6	9	− 8
3. ENGLAND, EAST ...	53	26	*	*	*	*	29	− 4	85	− 69	19	+ 4	2·68	+1·10	0·8	−0·8	10	−10
4. MIDLAND COUNTIES ...	55	22	*	*	*	*	30	− 10	118	− 34	19	+ 4	3·80	+1·85	0·8	−0·6	10	− 8
5. ENGLAND, S.E.	53	22	*	*	*	*	47	0	61	− 56	18	+ 4	3·25	+1·21	0·6	−1·0	7	−12
Western.																		
6. SCOTLAND, WEST ...	54	21	*	*	*	*	26	− 14	110	+ 3	19	0	4·57	+0·32	1·0	−0·1	13	− 1
7. ENGLAND, N.W.	56	21	*	*	*	*	34	− 5	96	− 13	18	+ 2	3·16	+0·43	1·1	−0·1	14	− 1
8. ENGLAND, S.W.	54	22	*	*	*	*	69	+ 2	54	− 30	21	+ 4	4·61	+1·29	1·2	−0·4	15	− 5
9. IRELAND, NORTH ...	54	22	*	*	*	*	65	+ 12	58	− 35	16	− 3	3·27	+0·15	1·3	0·0	17	0
10. IRELAND, SOUTH ...	55	27	*	*	*	*	91	+ 9	36	− 33	21	+ 3	4·46	+0·81	1·4	−0·2	18	− 3
11. ENGLISH CHANNEL ...	54	35	*	*	*	*	142	+ 41	0	− 31	17	− 2	3·17	+0·41	1·4	−0·6	17	− 7

NOTES ON TABLE IV.

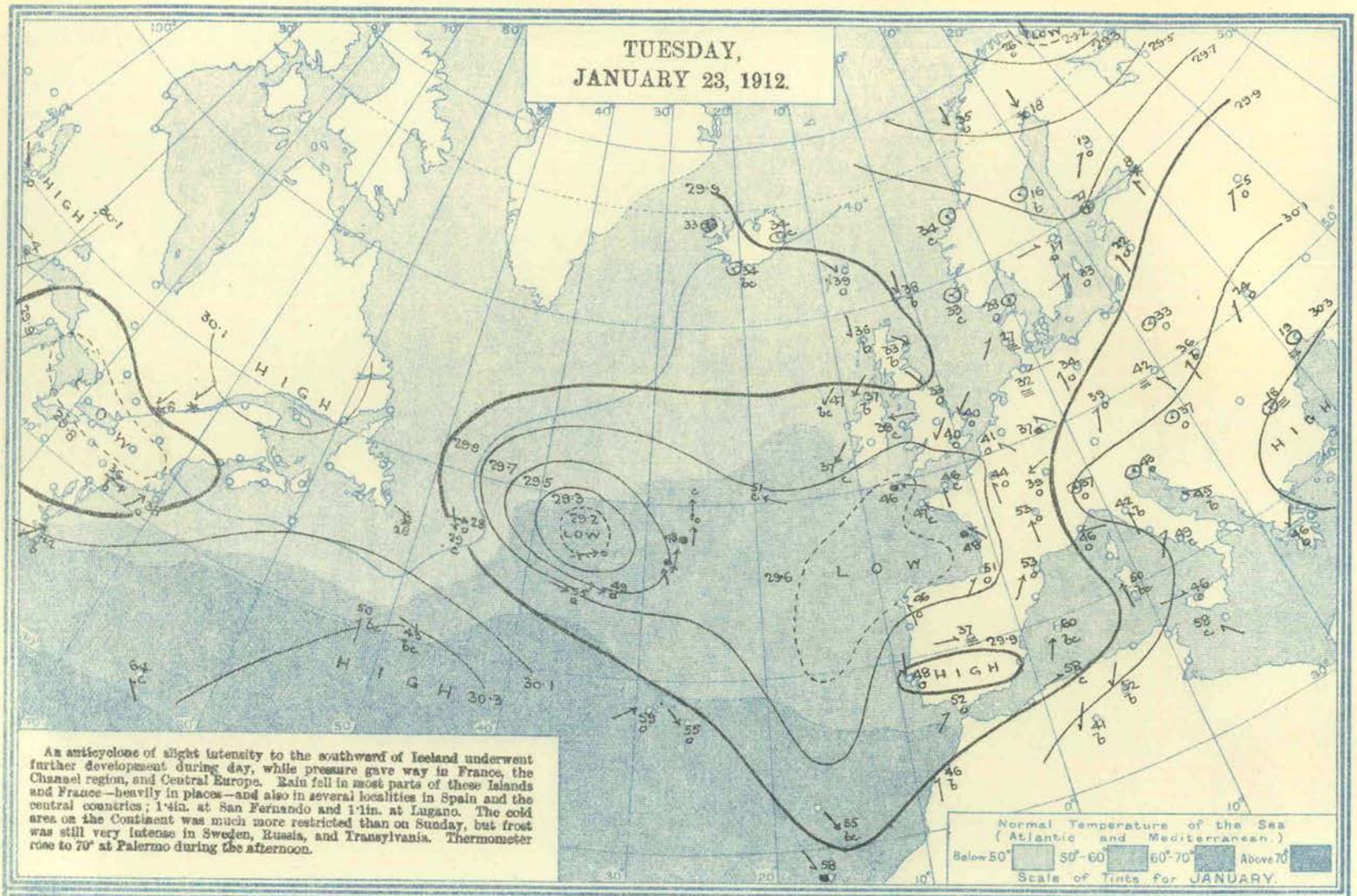
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for week ended December 23rd, 1911, altered owing to further information.



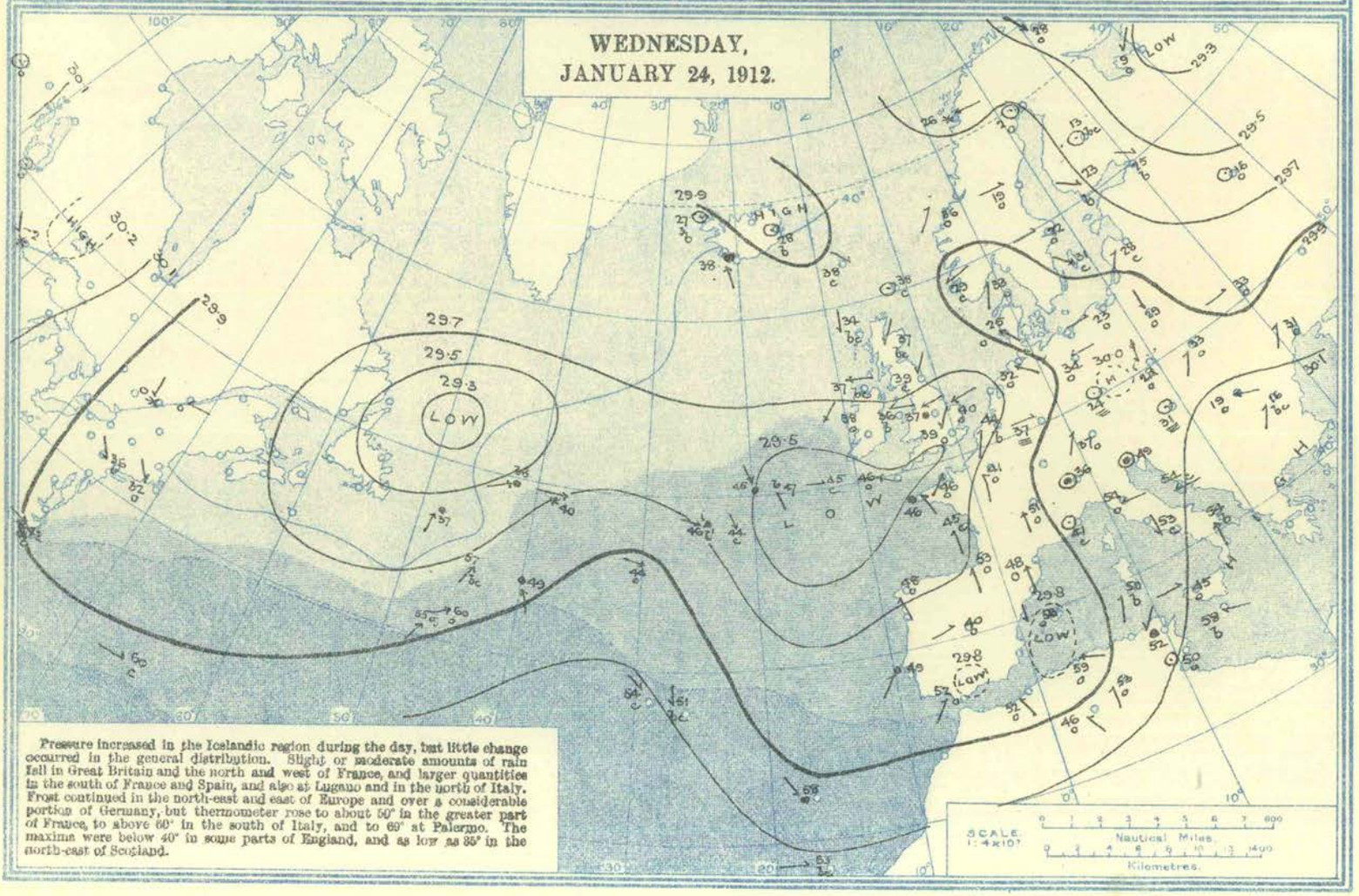
No change of importance during day in the pressure distribution, but readings becoming rather low generally. Heavy rain fell in the south-east of France and the south of Spain, 1·2in. at Malaga, and considerable quantities in Italy and over the Adriatic. Some snow or rain occurred in various localities on the Continent further north, and a little rain in many parts of these Islands. Severe frost continued over nearly all the central, northern, and eastern countries, and the thermometer touched 32° at Athens. Slight frost at night in some British and Irish localities.



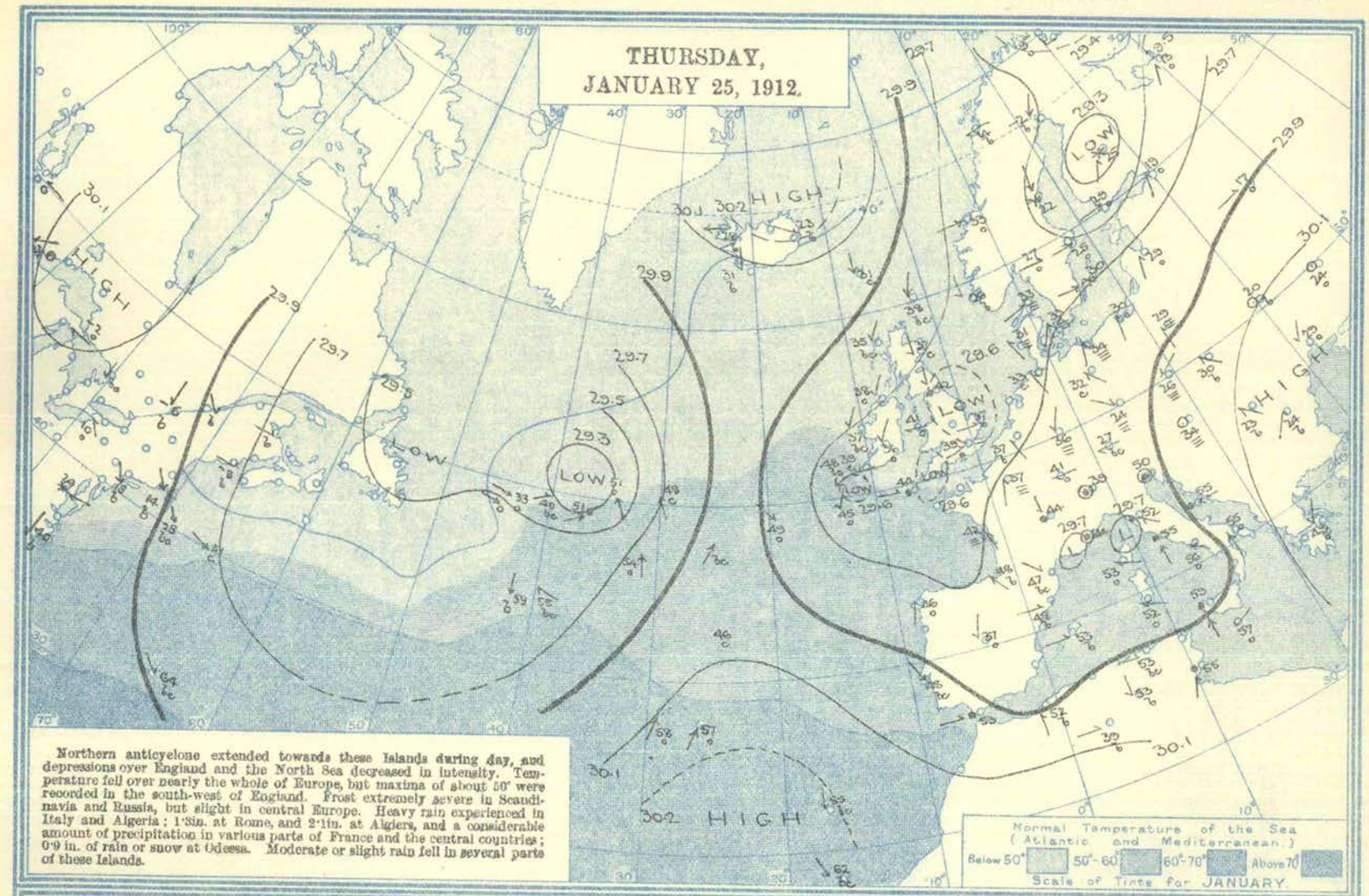
Pressure decreased during day in these Islands, France, and the Spanish Peninsula, but little change occurred in the general situation. Temperature was lower than on the preceding day over this country, the maxima being below 32° in many parts of Great Britain. Frost at night in some central and north-eastern localities. A rise of temperature took place on the Continent generally, but severe frost still held in Russia and Sweden. On the coast of Algeria the thermometer rose to 70° or above. About 0·6in. of rain fell in the Thames Valley, and also at Naples, and as much as 1·4in. at Funchal. Heavy snow in the N. of Sweden and at Memel.



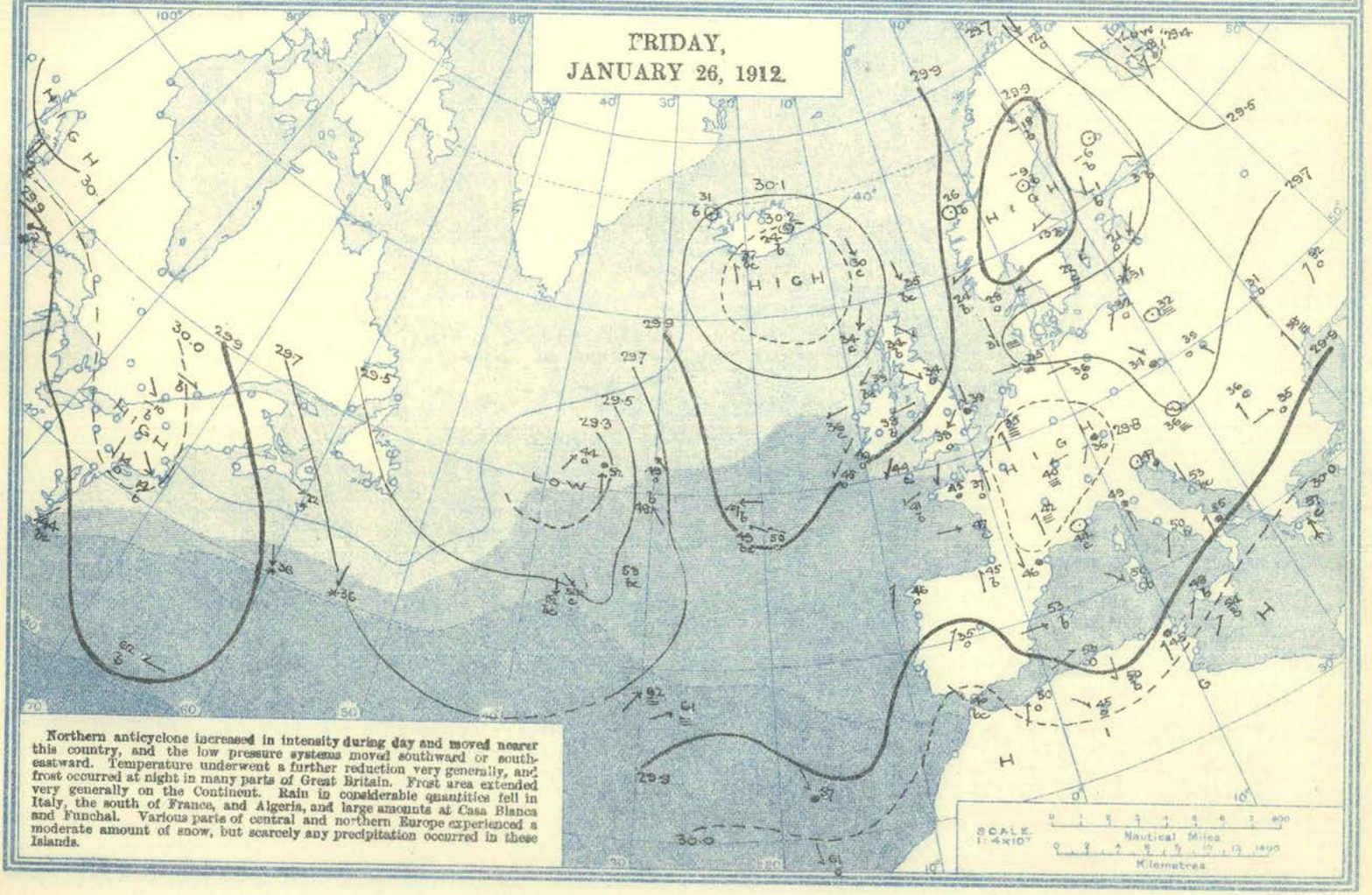
An anticyclone of slight intensity to the southward of Iceland underwent further development during day, while pressure gave way in France, the Channel region, and Central Europe. Rain fell in most parts of these Islands and France—heavily in places—and also in several localities in Spain and the central countries; 1·4in. at San Fernando and 1·1in. at Lugano. The cold area on the Continent was much more restricted than on Sunday, but frost was still very intense in Sweden, Russia, and Transylvania. Thermometer rose to 70° at Palermo during the afternoon.



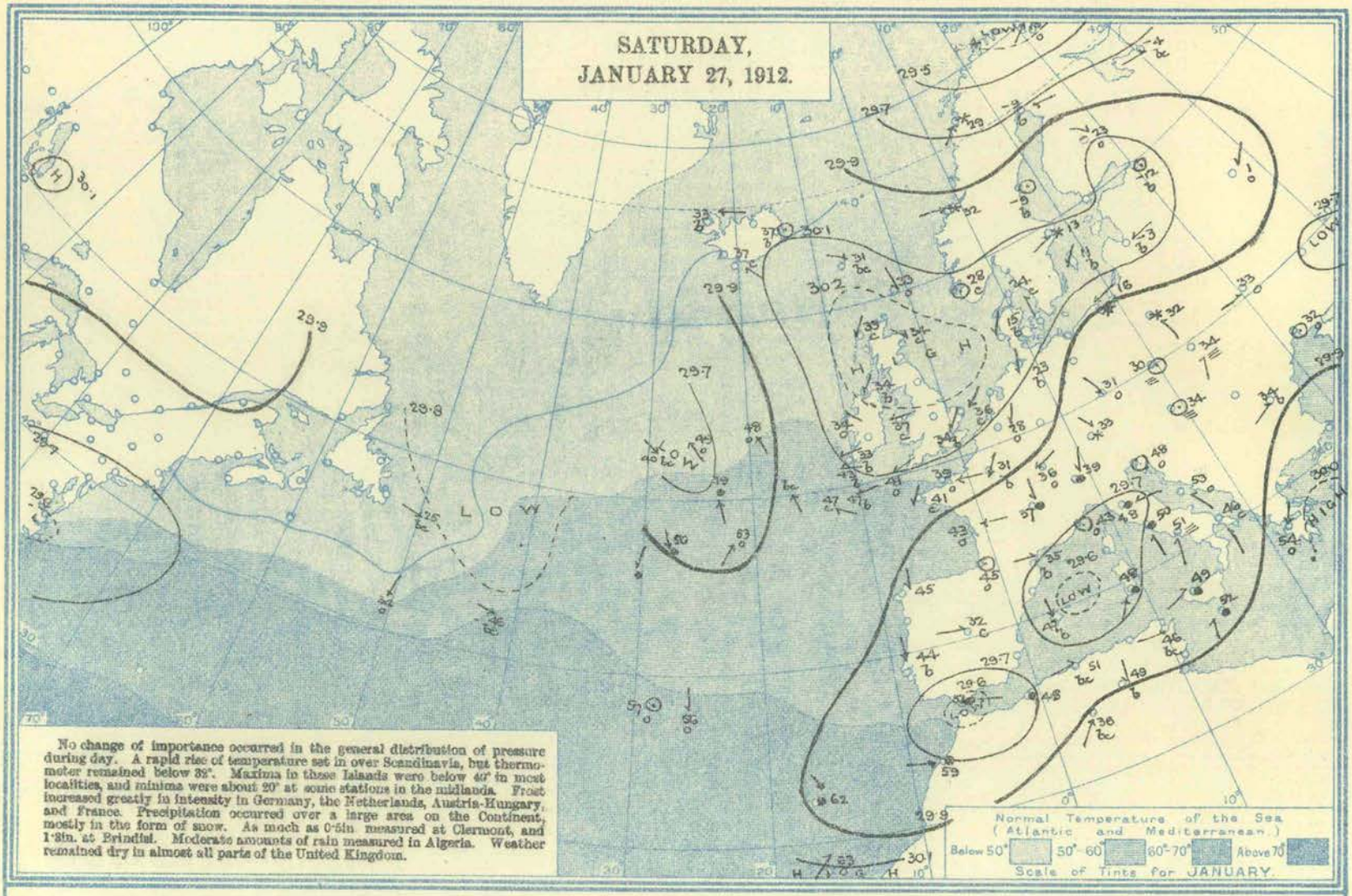
Pressure increased in the Icelandic region during the day, but little change occurred in the general distribution. Slight or moderate amounts of rain fell in Great Britain and the north and west of France, and larger quantities in the south of France and Spain, and also at Lugano and in the north of Italy. Frost continued in the north-east and east of Europe and over a considerable portion of Germany, but thermometer rose to about 50° in the greater part of France, to above 60° in the south of Italy, and to 66° at Palermo. The maxima were below 40° in some parts of England, and as low as 35° in the north-east of Scotland.



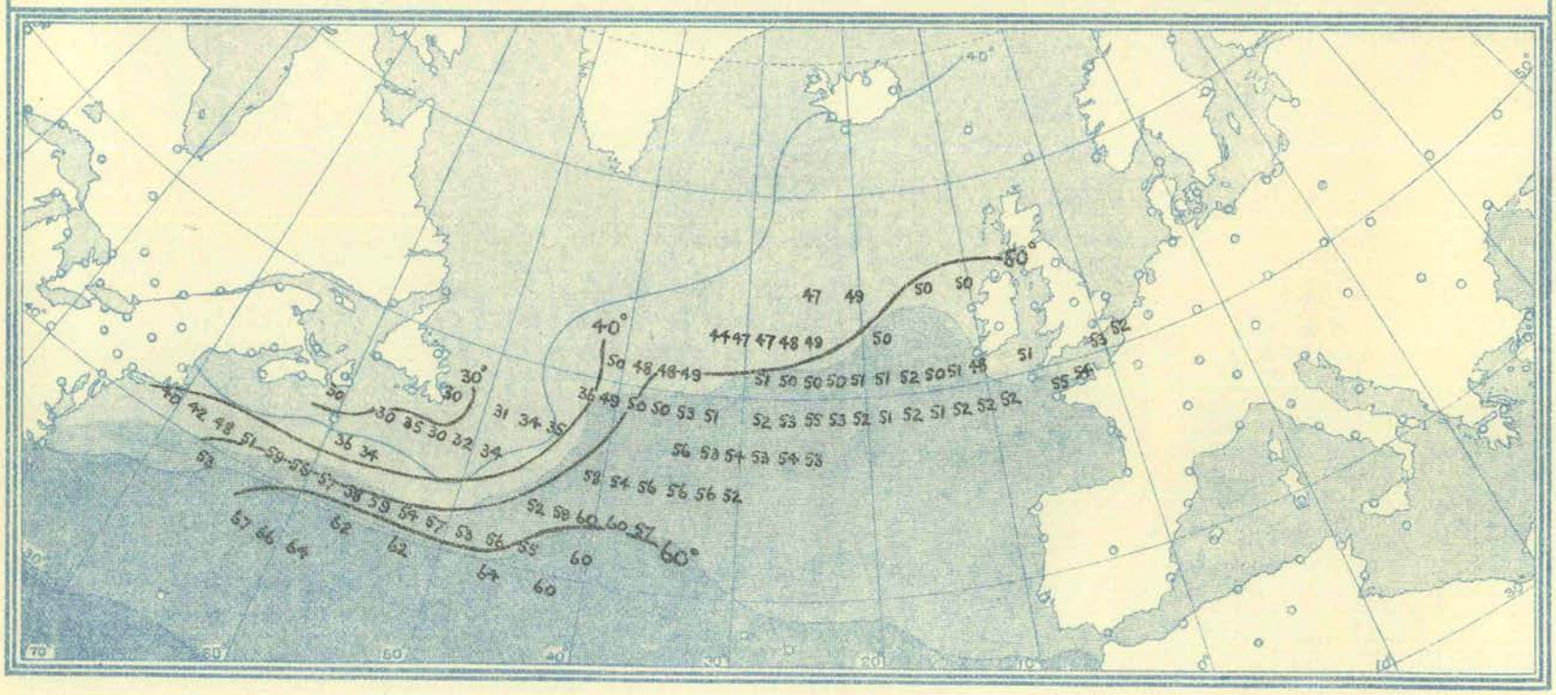
Northern anticyclone extended towards these Islands during day, and depressions over England and the North Sea decreased in intensity. Temperature fell over nearly the whole of Europe, but maxima of about 50° were recorded in the south-west of England. Frost extremely severe in Scandinavia and Russia, but slight in central Europe. Heavy rain experienced in Italy and Algeria; 1·3in. at Rome, and 2·1in. at Algiers, and a considerable amount of precipitation in various parts of France and the central countries; 0·9 in. of rain or snow at Odessa. Moderate or slight rain fell in several parts of these Islands.



Northern anticyclone increased in intensity during day and moved nearer this country, and the low pressure systems moved southward or south-eastward. Temperature underwent a further reduction very generally, and frost occurred at night in many parts of Great Britain. Frost area extended very generally on the Continent. Rain in considerable quantities fell in Italy, the south of France, and Algeria, and large amounts at Casa Blanca and Funchal. Various parts of central and northern Europe experienced a moderate amount of snow, but scarcely any precipitation occurred in these Islands.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 27th January, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟿ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (○) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 5. FIFTH WEEK, SUNDAY, JANUARY 28TH, TO SATURDAY, FEBRUARY 3RD, 1912. Price 6d. Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition was very wintry, but the sky was often clear or only partially clouded, and snow was seldom experienced except in the north-east and north of Great Britain.

Temperature was much below the average, the deficit amounting to 10° in the south-west of England and the midland counties, and to about 9° in several other parts of Britain. The highest of the maxima occurred at most stations on January 30th or 31st, and ranged from 49° in the south of Ireland, and 47° in the English Channel district, to 42° in the north-east of England. Late in the week the maxima were below 32° in many parts of England and Scotland. The lowest of the minima were registered on February 3rd over the Kingdom generally. In the east of Scotland (at Balmoral on February 2nd) the thermometer fell to 4°, in the south west of England (at Llangammarch Wells on February 3rd) to 9°, and in the north of Scotland (at Fort Augustus on February 3rd) to 10°. In most other districts the absolute minima were below 15°, but in the English Channel the thermometer did not fall below 28°. The lowest grass readings registered were—0°.3 at Norwich (at about 11 pm. on February 2nd), 0° (zero) at Balmoral and Burnley, 3° at Gordon Castle and Newton Rigg, 5° at Wisley, and 6° at Rounton, Margate, Hampstead and Aspatria.

Mean Temperature of the Sea was below the average on the south-west coast of Ireland, but rather above it at most stations on the British coasts. The values ranged from 48° at Plymouth, and 47° at Scilly and Newquay, to 39° at Burnmouth, Aberdeen and Cromarty, and to 38° at Scarborough and Cleggan.

Rainfall. Nearly all the precipitation was in the form of snow, but the measurements, when melted, were much below the average; in Ireland, Scotland West, and the central and southern parts of England the fall was less than 0·1 in.

Bright Sunshine exceeded the normal in all districts, the difference being generally very large. The percentage of the possible duration ranged from 57 in the English Channel, 49 in the south-west of England, 44 in England North-West and 43 in England South-East, to 36 in Scotland North, and 33 in the Midland Counties.

Barometer and Wind. During the early days of the period an anticyclone lay directly over these Islands, and the wind was light and rather variable. By Tuesday, however, the system had moved to the southward, and as a depression of increasing intensity had appeared over Scandinavia, a light to moderate or fresh North-Westerly wind set in over this country. Later on the barometric situation became more and more unsettled, relatively high pressures being found over Iceland and over the South of France, and depressions over the Baltic and off our own south-west coasts, small shallow disturbances appearing at times directly over the United Kingdom.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 19.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
Rainfall ...	Light	Moderate	Moderate	Moderate	Very light	Very light	Very light	Very light	Very light	Very light	Very light	Very light
Sunshine ...	Very abundant	Abundant	Abundant	Abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks

WINTER, 9 weeks from Dec. 3rd, 1911. Warmth ...	2 * 2	2 * 2	3 * 2	3 * 1	3 * 2	3 * 2	3 * 3	3 * 2	4 * 1	4 * 3	3 * 3	6 * 1
Rainfall ...	2 * 3	5 * 0	5 * 0	7 * 0	6 * 1	7 * 1	6 * 2	6 * 2	5 * 1	5 * 2	5 * 2	7 * 1
Sunshine ...	4 * 1	3 * 2	2 * 1	3 * 5	3 * 4	2 * 6	3 * 3	4 * 2	2 * 3	5 * 2	2 * 2	2 * 3

PAST SEASONS.

WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks. Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks. Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks. Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks. Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

(22878—24.) Wt. 113—4. 450. 2/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Rainfall Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	*44*	*29, 30*	*24*	*2, 3*	*37·1*	*28·9*	*33·2*	—	*0*	*62*	•	•	35·9	-1·2	•	•	*7*	*0·54*	—	*1·6*	—	*22*	—	*Baltasound.*
a Islands .. *a* Lerwick	43	29, 30	25	2, 3	36·9	30·4	33·8	- 4·8	0	57	•	•	•	•	•	•	7	0·63	—	1·8	+ 0·4	23	+ 5	Deerness.
a Stornoway	44	30th	20	3rd	36·7	27·7	32·4	- 6·6	0	67	•	•	•	•	•	•	4	0·85	- 0·21	3·0	+ 1·5	39	+19	Stornoway.
a Castlebay, Barra Isd.	*46*	*30th*	*27*	*3rd*	*39·7*	*33·1*	*36·5*	*- 4·5*	*0*	*39*							*2*	*0·11*	—	*3·3*	—	*41*	—	*Castlebay.*
a Wick	42	30th	19	3rd	36·1	26·7	31·6	- 6·1	0	73	•	•	•	•	•	•	5	0·22	- 0·25	•	•	36	•	•
p Strathpeffer ..	43	30th	14	3rd	35·3	23·4	29·6	- 7·4	0	87	•	•	•	•	•	•	4	0·33	- 0·36	2·9	+ 1·3	36	+16	Strathpeffer.
b, Main- *p* Glencarron ..	44	30th	11	3rd	34·5	19·4	27·3	- 9·2	0	103	•	•	•	•	•	•	3	0·80	- 1·24	•	•	•	•	•
land. *p* Fort Augustus..	41	30th	10	3rd	36·4	19·3	28·2	- 9·4	0	97	•	•	•	•	•	•	4	0·20	- 0·95	3·4	+ 2·4	43	+30	Fort Augustus.
p Fort William ..	45	30th	18	30, 3	34·7	22·6	28·9	-10·2	0	92	•	•	•	•	•	•	1	0·07	- 1·89	•	•	•	•	•
1. SCOTLAND, E.											7	3	34·0	-0·7	38·3	+0·8	—	—	—	3·6	—	44	—	Crathes S.
p Gordon Castle..	41	30, 31	12	2nd	36·0	23·7	30·1	- 8·1	0	83	•	•	•	•	•	•	5	0·80	+ 0·30	*1·9*	—	*24*	—	*Gordon Castle.*
a Nairn	41	30th	19	29, 3	33·4	23·3	28·6	- 8·7	0	94	•	•	•	•	•	•	5	0·34	- 0·11	2·8	—	35	—	Nairn.
a Aberdeen ..	43	30th	19	3rd	34·7	26·4	30·7	- 7·1	0	79	•	•	•	•	40·1	+1·2	4	0·78	+ 0·26	2·8	+ 0·7	35	+ 9	Aberdeen.
a Balmoral ..	42	28th	4	2nd	38·0	13·0	26·0	- 7·9	0	112	7	0	•	•	•	•	4	0·52	- 0·16	•	•	•	•	Balmoral.
p Crieff	43	30th	20	3rd	36·0	23·6	30·1	- 7·3	0	83	•	•	•	•	•	•	4	0·08	- 0·79	4·2	—	52	—	Balruddery.
a Leith	43	30th	25	30, 3	36·0	27·7	32·0	- 7·1	0	70	•	•	•	•	•	•	2	0·08	- 0·30	•	•	•	•	•
p West Linton ..	39	30th	13	29th	31·9	19·7	26·0	-10·3	0	112	•	•	•	•	•	•	3	0·23	—	*2·6*	—	*31*	—	*West Linton.*
p Marchmont ..	40	30, 31	19	2, 3	35·1	22·7	29·2	- 7·3	0	90	7	15	33·3	-1·2	•	•	1	0·06	- 0·46	2·1	+ 0·2	25	+ 3	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	42	30th	21	29th	35·9	25·1	30·7	- 7·3	0	79	7	16	33·4	-1·6	38·8	+0·1	4	0·34	- 0·15	4·5	—	54	—	Cockle Park.
a Shields	40	30th	19	3rd	35·4	24·9	30·4	- 8·1	0	81	•	•	•	•	•	•	3	0·15	- 0·19	*1·7*	*+ 0·4*	*20*	*+ 5*	*Newcastle.*
p Durham	40	30, 31	16	29th	35·6	22·0	29·1	- 8·2	0	90	7	12	•	•	•	•	5	0·38	+ 0·04	3·0	+ 1·1	36	+13	Durham.
a, North .. *p* Rounton	39	30, 31	13	2, 3	35·0	19·4	27·5	- 9·4	0	102	7	6	34·3	•	•	•	5	0·31	- 0·08	•	•	•	•	Rounton.
a West Witton	*39*	*28th*	*15*	*29th*	*34·4*	*21·6*	*28·3*	—	*0*	*96*	7	14	34·3	•	•	•	*4*	*0·45*	—	•	•	•	•	*West Witton.*
p Scarborough	40	29, 30	25	3rd	37·4	28·9	33·3	- 5·2	0	61	•	•	•	•	39·4	•	5	0·40	- 0·04	3·2	—	37	—	Scarborough.
p York	39	30, 31	16	29th	35·6	22·0	29·1	- 9·0	0	90	•	•	35·7	-1·1	41·7	+1·2	4	0·20	- 0·18	2·3	+ 0·8	27	+10	York.
a Spurn Head	38	30th	23	3rd	34·6	27·0	31·0	- 7·7	0	77	7	12	34·9	-0·7	42·4	+0·9	4	0·07	- 0·21	*2·3*	—	*27*	—	*Hull.*
b, South .. *a* Lincoln	38	31st	15	3rd	35·3	21·4	28·6	- 8·8	0	94	•	•	33·0	-2·2	42·9	+1·4	3	0·15	- 0·21	•	•	•	•	Lincoln.
a Fulbeck	37	30, 31	14	3rd	34·4	21·4	28·2	- 9·6	0	97	7	11	34·9	-1·7	43·0	+1·3	3	0·16	- 0·22	3·4	—	39	—	Rauceby.
																				3·4	—	40	—	Skegness.
											7	15	35·0	-2·0	42·1	+1·6	—	—	—	*2·5*	—	*29*	—	*Lowestoft.*
3. ENGLAND, E.											•	•	•	•	•	•	6	0·53	—	2·6	—	30	—	Cromer.
p Cromer	38	28, 29, 30	21	2nd	37·0	28·1	32·7	- 4·2	0	65	7	12	•	•	•	•	3	0·16	- 0·28	2·8	+ 0·2	32	+10	Hillington.
p Hillington	37	29, 31	14	3rd	34·6	22·2	28·7	- 8·6	0	93	•	•	34·7	-0·9	43·7	+2·5	5	0·53	+ 0·19	2·2	—	25	—	Yarmouth
a, North .. *a* Yarmouth	39	29th	20	3rd	35·3	27·6	31·6	- 5·9	0	73	•	•	34·9	•	•	•				*2·9*	—	*33*	—	*Norwich.*
a Norwich											—	—	•	•	•	•	4	0·13	- 0·21	2·9	+ 0·8	33	+ 9	Geldeston.
p Geldeston	42	28, 29	18	2, 3	36·7	24·4	30·8	- 7·3	0	78	•	•	•	•	•	•								
p Cambridge	39	31st	15	29th	35·9	21·0	28·8	- 9·1	0	92	6	14	34·8	-1·4	42·6	+1·5	3	0·04	- 0·28	3·0	+ 1·0	35	+11	Cambridge.
a Felixstowe	*40*	*28th*	*17*	*3rd*	*36·0*	*25·7*	*31·1*	*- 7·3*	*0*	*76*	•	•	•	•	•	•	*3*	*0·15*	—	*3·9*	—	*45*	—	*Felixstowe.*
a Clacton-on-Sea ..	39	28, 29	18	3rd	35·7	27·3	31·7	- 6·7	0	72	7	16	38·2	+0·1	44·9	+2·1	3	0·06	—	4·0	—	45	—	Clacton.
b, South .. *a* Rothamsted	39	31st	16	3rd	35·9	20·9	28·7	- 8·6	0	93	•	•	•	•	•	•	2	0·02	- 0·44	3·7	+ 1·8	42	+20	Rothamsted.
a Shoeburyness	*41*	*28th*	*19*	*3rd*	*36·7*	*26·3*	*31·7*	*- 7·0*	*0*	*72*	7	18	36·7	-1·2	•	•	*3*	*0·05*	*- 0·23*	*3·9*	—	*44*	—	*Southend.*
p Tottenham	43	31st	19	3rd	38·4	25·7	32·3	- 6·5	0	68	7	16	•	•	44·4	+2·1	1	0·03	—	3·3	—	37	—	Tottenham.
4. MIDLAND COUNTIES.											7	11	34·5	-1·3	41·5	+1·3	—	—	—	3·2	—	*37*	—	*Huddersfield.*
a Harrogate	41	28th	15	3rd	34·1	22·0	28·3	- 8·4	0	96	7	8	35·4	-1·5	39·5	+0·4	4	0·68	+ 0·17	4·3	—	50	—	Harrogate.
a Bawtry	39	30th	14	29th	33·6	21·7	27·9	- 9·7	0	99	7	9	34·5	•	40·4	•	1	0·06	- 0·32	2·0	+ 0·4	23	+ 5	Worksop.
p Buxton	*36*	*29, 30, 31*	*11*	*30th*	*33·4*	*18·0*	*26·0*	*- 9·3*	*0*	*118*	7	8	34·2	-1·4	42·4	+1·5	*4*	*0·25*	*- 0·77*	*2·1*	—	*24*	—	*Buxton.*
a, East .. *a* Nottingham ..	40	31st	16	3rd	35·0	20·3	27·9	- 9·8	0	99	7	11	32·4	-2·7	39·4	+0·9	3	0·09	- 0·31	1·2	—	14	—	Nottingham.
p Birmingham, Edgbsn.	38	31st	14	3rd	34·1	23·4	29·0	- 8·7	0	91	7	7	36·0	-2·1	43·8	+0·5	1	0·03	- 0·40	1·2	—	12	—	Birmingham.
a Raunds	40	28th	11	30th	35·9	18·1	27·4	- 9·8	0	102	7	8	35·4	—	44·4	—	4	0·05	—	•	•	•	•	Raunds.
a Oxford	41	29, 31	18	3rd	37·9	22·0	30·3	- 8·4	0	82	7	13	•	•	•	•	0	0·00	- 0·40	4·3	+ 2·4	48	+27	Oxford.
											7	12	34·4	-1·4	41·4	+1·1	—	—	—	2·4	—	28	—	Sheffield.
											7	12	•	•	•	•	1	0·06	- 0·46	•	•	•	•	Cheadle.
a Cheadle	39	31st	16	3rd	34·3	22·0	28·4	- 8·5	0	95	7	12	•	•	•	•	1	0·05	—	•	•	•	•	Shrewsbury.
p Shrewsbury	46	28th	16	3rd	41·0	21·7	31·7	- 6·9	0	72	7	9	•	•	•	•	0	0·00	- 0·50	•	•	•	•	Hereford.
b, West .. *a* Hereford	39	31, 1	15	3rd	35·1	19·9	27·8	-10·7	0	99	7	14	36·0	•	42·4	•	0	0·00	- 0·50	3·9	+ 2·0	44	+22	Cirencester.
a Cirencester	39	30, 31, 1	15	3rd	38·0	20·7	29·7	- 7·8	0	86	•	•	36·8	-2·0	43·7	+0·5	0	0·00	- 0·51	4·4	—	49	—	Bath.
a Bath	41	31st	17	3rd	37·7	22·3	30·3	- 9·3	0	82	•	•												
5. ENGLAND, S.E.											7	14	38·8	+1·5	45·0	+2·3	—	—	—	•	•	•	•	Canterbury.
p Kew	40	31st	18	29th	36·4	24·6	30·7	- 8·3	0	79	7	9	35·4	-1·2	44·4	+2·2	0	0·00	- 0·37	2·8	+ 1·2	32	+13	Kew.
a Marlborough	39	30, 1	14	3rd	35·7	18·6	27·5	-10·0	0	102	7	6	•	•	•	•	0	0·00	- 0·55	3·1	+ 1·4	36	+16	Marlborough.
a Margate	43	28th	25	3rd	38·1	31·4	34·9	- 4·2	0	50	4	—	37·7	-0·4	43·4	+2·5	2	0·30	- 0·05	2·4	+ 0·5	27	+ 5	Margate.
a Wisley, Surrey ..	39	28, 31	17	3rd	36·1	22·3	29·5	- 9·9	0	88	7	5	35·2	-1·7	43·5	+2·2	0	0·00	—	4·5	—	51	—	Wisley
a Swarraton	39	31st	15	3rd	35·6	21·4	28·8	- 9·0	0	92	7	13	37·3	-0·5	45·6	+2·8	0	0·00	- 0·55	4·7	—	52	—	Worthing.
a Tunbridge Wells ..	37	28, 30, 31	13	3rd	34·7	22·9	29·0	- 8·8	0	91	7	8	36·4	0·0	•	•	0	0·00	- 0·39	4·0	+ 2·2	45	+24	Tunbridge Wells.
a Dungeness	41	30, 1	14	3rd	37·4	24·6	31·3	- 8·1	0	75	•	•	•	•	•	•	3	0·18	- 0·36	3·1	—	35	—	Littlestone.
p Hastings..	42	30th	17	3rd	36·9	27·6	32·4	- 7·3	0	67	7	14	36·6	•	45·1	•	3	0·05	- 0·45	*4·3*	*+ 2·0*	*48*	*+22*	*Hastings.*
p Southampton	41	31st	17	3rd	38·4	25·7	32·3	- 8·0	0	68	7	11	•	•	•	•	0	0·00	- 0·55	4·1	+ 2·0	46	+23	Southampton.
a Ventnor	42	31st	21	3rd	39·6	28·7	34·4	- 7·0	0	53	•	•	•	•	•	•	0	0·00	- 0·54	4·7	+ 2·4	52	+27	Ventnor.
											7	12	36·2	-2·2	44·9	+1·4	—	—	—	*4·3*	—	*48*	—	*Portsmouth.*
											•	•	39·0	•	45·9	•	—	—	—	4·1	+ 2·0	46	+22	Eastbourne.
											•	•	36·5	•	42·5	•	—	—	—	*5·6*	—	*62*	—	*Bournemouth.*
LONDON.											7	14	•	•	43·9	•	—	—	—	*4·6*	*+ 2·5*	*51*	*+27*	*Brighton.*
a Westminster	*41*	*31st*	*19*	*3rd*	*36·6*	*25·9*	*31·5*	*- 7·7*	*0*	*74*	7	15	•	•	•	•	*1*	*0·01*	*- 0·36*	*0·5*	*- 0·4*	*6*	*- 4*	*Westminster.*
a Greenwich	*39*	*31st*	*19*	*29, 3*	*35·9*	*23·6*	*30·0*	*- 8·8*	*0*	*84*	7	15	•	•	•	•	*3*	*0·12*	*- 0·23*	*1·9*	*+ 0·2*	*21*	*+ 2*	*Greenwich.*
a Hampstead	*40*	*31st*	*16*	*3rd*	*35·3*	*24·7*	*30·2*	—	*0*	*83*	7	6	•	•	•	•	*1*	*0·01*	—	*3·7*	—	*42*	—	*Hampstead.*
a Camden Square ..	*43*	*30th*	*17*	*3rd*	*36·7*	*23·1*	*30·2*	—	*0*	*83*	7	16	•	•	•	•	*3*	*0·05*	—	*2·6*	—	*29*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch	45	30th	18	3rd	36·1	23·7	30·2	- 8·5	0	83	•	•	•	•	•	•	1	0·10	- 0·88	•	•	•	•	•
p Glasgow	43	30, 31	23	29th	35·9	26·9	31·6	- 6·8	0	73	7	17	•	•	•	•	1	0·01	- 0·69	2·6	+ 1·5	31	+18	Glasgow.
p Rothesay	46	30th	26	30th	38·6	28·9	33·9	- 5·5	0	57	•	•	•	•	41·5	-0·3	2	0·07	- 0·86	•	•	•	•	•
a Kilmarnock	43	30th	12	3rd	35·7	22·1	29·2	- 9·9	0	90	•	•	•	•	•	•	1	0·06	—	*2·8*	—	*34*	—	*Kilmarnock.*
a Colmonell	41	30, 31	15	3rd	38·4	27·3	33·1	- 5·6	0	62	5	13	•	•	•	•	1	0·02	- 0·93	•	•	•	•	•
p Dumfries	41	30, 31	20	3rd	36·6	24·6	30·8	- 7·6	0	78	7	14	34·3	•	39·4	•	0	0·00	- 0·75	*2·7*	—	*32*	—	*Dumfries.*
p Cally, Gatehouse	44	31st	17	3rd	36·9	24·5	31·0	- 7·2	0	77	•	•	•	•	•	•	0	0·00	- 1·00	•	•	•	•	•
b I. OF MAN.																								
p Douglas	43	31st	25	2, 3	38·3	29·7	34·2	- 6·2	0	55	6	16	•	•	•	•	1	0·04	- 0·75	4·2	+ 2·2	49	+26	Douglas.
											7	0	34·1	-1·2	41·5	+1·3	—	—	—	*2·0*	—	*23*	—	*Burnley.*
											6	17	•	•	•	•	—	—	—	4·2	—	49	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	39	30, 31	17	3rd	35·1	23·3	29·4	- 8·3	0	88	7	6	35·4	•	42·8	•	1	0·01	- 0·59	4·0	—	48	—	Aspatria.
p Newton Rigg	39	31st	14	3rd	34·0	20·4	27·5	- 9·1	0	102	7	3	35·3	-1·4	40·2	+0·5	3	0·17	- 0·57	3·4	+ 1·7	41	+21	Newton Rigg.
p Stonyhurst	40	31st	16	3rd	33·7	22·6	28·4	- 9·5	0	95	7	9	•	•	•	•	3	0·10	- 0·77	3·5	+ 1·9	41	+22	Stonyhurst.
p Blackpool	42	31st	17	29th	35·7	23·9	30·0	- 8·6	0	84	•	•	•	•	•	•	2	0·02	- 0·55	4·4	+ 2·7	51	+31	Blackpool.
p Manchester, Prestwich	41	31, 1	13	3rd	35·6	21·6	28·9	- 9·1	0	92	•	•	•	•	•	•	2	0·12	- 0·51	*2·0*	*+ 1·0*	*23*	*+12*	*Prestwich.*
a Liverpool (Bidston) ..	41	31st	25	28, 30, 3	36·1	27·7	32·1	- 7·6	0	69	•	•	•	•	•	•	2	0·19	- 0·27	*4·3*	—	*50*	—	*Liverpool.*
a Hawarden Bridge ..	42	31st	19	3rd	36·3	24·1	30·4	- 9·7	0	81	7	7	32·7	-2·5	39·3	+0·1	1	0·02	- 0·33	*3·6*	*+ 1·9*	*42*	*+22*	*Southport.*
											6	14	34·1	-1·9	42·9	+1·3	—	—	—	*1·0*	—	*12*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	42	31st	24	3rd	38·7	28·6	33·9	- 7·4	0	57	•	•	•	•	•	•	3	0·16	- 0·38	3·4	+ 1·4	40	+16	Llandudno.
a Holyhead	43	31st	26	29, 30	38·9	30·3	34·8	- 6·7	0	50	•	•	•	•	•	•	3	0·07	- 0·56	4·5	—	52	—	Aberdovey.
p Bettws-y-Coed ..	42	31st	15	3rd	37·4	23·6	30·8	- 9·6	0	78	7	13	35·3	-2·5	43·0	+0·7	2	0·14	—	2·8	—	30	—	Bettws-y-Coed.

For notes see opposite page

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·1	—	59	—	Aberystwyth.
a Llangammarch Wells	41	30, 31	9	3rd	36·3	16·7	26·9	-10·9	0	106	7	7	36·1	-1·9	44·6	+1·3	1	0·01	—	2·7	—	31	—	Llangammarch
a Pembroke	44	31st	25	3rd	39·4	29·7	34·7	- 7·6	0	51	•	•	•	•	•	•	1	0·01	- 0·68	4·1	+2·0	46	+22	Pembroke.[Wells
p Cardiff	45	31st	19	3rd	37·7	24·4	31·3	- 8·3	0	75	6	13	34·8	-3·6	43·3	+1·3	0	0·00	- 0·70	*5·5*	—	*62*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	40	31st	18	3rd	36·0	23·3	29·9	- 9·8	0	85	7	18	•	•	•	•	1	0·01	- 0·59	*4·3*	—	*48*	—	*Clifton.*
a Shaftesbury	40	31st	16	3rd	35·4	23·1	29·5	- 8·3	0	88	•	•	35·1	•	•	•	0	0·00	- 0·58	•	•	•	•	Shaftesbury.
a Arlington	42	31st	15	3rd	37·4	23·7	30·8	- 8·4	0	78	•	•	39·3	•	•	•	0	0·00	- 0·98	4·5	+ 2·4	50	+26	Newquay.
a Cullompton	44	31st	16	3rd	38·9	22·9	31·2	- 8·7	0	76	7	10	38·3	•	•	•	1	0·02	- 0·67	4·8	+ 2·9	53	+32	Cullo upton.
a Portland	44	31st	24	3rd	39·6	30·7	35·3	- 6·2	0	47	•	•	•	•	•	•	0	0·00	—	*6·1*	—	*68*	—	*Weymouth.*
p Plymouth	45	1st	20	3rd	40·4	27·0	34·0	- 8·0	0	56	7	12	37·2	-3·1	•	•	0	0·00	- 0·71	5·3	+ 3·2	59	+36	Plymouth.
p Falmouth	43	29th	23	3rd	39·4	30·6	35·2	- 7·9	0	48	•	•	•	•	•	•	0	0·00	- 0·90	4 5	+ 2 3	50	+25	Falmouth.
9. IRELAND. N.																								
a Malin Head	45	30th	30	29, 2, 3	39·1	32·9	36·1	- 4·7	0	41	•	•	•	•	•	•	1	0·02	- 0·54	•	•	•	•	• •
a, West .. *a* Blacksod Point ..	45	31st	23	3rd	39·7	30·6	35·3	- 7·2	0	47	•	•	•	•	•	•	2	0·15	- 0·85	•	•	•	•	• •
p Markree Castle ..	44	31st	15	3rd	38·9	21·4	30·5	- 9·0	0	81	7	10	36·6	-2·9	44·0	+0·2	1	0·08	- 0·72	3·4	+ 1·7	40	+19	Markree Castle.
a Birr Castle	43	29, 31	18	3rd	39·3	25·9	32·9	- 7·0	0	64	•	•	•	•	•	•	0	0·00	- 0·57	*4·4*	+ *2·4*	*51*	+*28*	*Birr Castle.*
b, East .. *p* Armagh	43	31st	21	2nd	38·1	26·3	32·4	- 7·3	0	67	7	12	36·3	-3·1	42·6	-0·2	3	0·10	- 0·45	3·4	+ 1·6	40	+19	Armagh.
a Donaghadee	44	31st	27	3rd	38·6	32·7	35·8	- 4·6	0	43	•	•	•	•	•	•	0	0·00	- 0·58	•	•	•	•	• •
											7	11	37·5	-2·4	43·9	+0·9	•	•	•	•	•	•	•	Trinity Coll.
10. IRELAND, S.											7	14	•	•	•	•	•	•	•	4·1	+ 1·9	48	+22	Phœnix Park.
a, East .. *p* Dublin, City ..	41	29th	24	3rd	37·4	29·1	33·4	- 8·4	0	60	7	22	•	•	•	•	2	0·12	- 0·38	•	•	•	•	Dublin City.
a Kilkenny	43	29th	13	3rd	38·7	23·1	31·2	- 9·2	0	76	•	•	•	•	•	•	1	0·02	- 0·68	•	•	•	•	• •
a Waterford ..	49	30th	17	3rd	41·4	26·0	34·0	- 7·2	0	56	•	•	•	•	•	•	0	0·00	- 0·88	•	•	•	•	• •
a Birr Castle	43	29, 31	18	3rd	39·3	25·9	32·9	- 7·0	0	64	•	•	•	•	•	•	0	0·00	- 0·57	4·4	+ 2·4	51	+28	Birr Castle.
a Foynes	43	29th	17	3rd	38·6	26·4	32·7	- 9·3	0	65	•	•	•	•	•	•	0	0·00	- 0·78	•	•	•	•	• •
b, West .. *a* Cahir	42	29, 31	14	3rd	39·1	22·8	31·3	- 9·8	0	75	•	•	•	•	•	•	0	0·00	—	•	•	•	•	• •
a Killarney	43	29, 30	17	3rd	39·9	29·8	35·1	- 7·3	0	48	•	•	•	•	•	•	0	0·00	- 1·34	•	•	•	•	• •
a Valencia	45	29, 30, 31	28	3rd	42·6	34·0	38·5	- 5·8	2	30	•	•	•	•	•	•	1	0·06	- 1·19	3·1	+ 1·0	36	+12	Valencia.
a Roche's Point	45	28th	25	3rd	40·4	32·4	36·6	- 6·7	0	38	•	•	•	•	•	•	3	0·09	- 0·88	1·8	—	20	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	45	28th	28	3rd	42·6	34·9	38·9	- 6·4	2	26	•	•	•	•	•	•	1	0·02	- 0·65	4·6	+ 2·2	51	+25	Scilly.
a Jersey, St. Aubins ..	46	30, 31	28	31st	42·3	30·6	36·7	- 5·9	1	42	•	•	•	•	•	•	1	0·04	- 0·61	5·5	+ 2·8	60	+31	St. Heliers.
a Guernsey (Villa Carey)	47	30th	30	3rd	43·1	32·7	38·1	- 5·3	3	35	6	15	40·7	-1·0	47·5	+2·2	2	0·09	- 0·59	5·4	+ 3·1	59	+35	Guernsey.*

Additional Sunshine Means :—*Bognor, 5·0 hrs. 56%; Newcastle (Pendower),* hrs. %; *Ramsgate, 2·8 hrs. 32 %; Rhyl, 4·4 hrs. 51 %; Salcombe, 5·9 hrs. 66 %; Tenby, 5·5 hrs.* (+3·2) 62 % (+ 36 %); *Torquay, 5·7 hrs.* (+3·4) 63 % (+38 %).

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, February 3rd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	43	41	42·3	-0·1	SCOTLAND, W. ..	Lamlash	43	41	42·7	-1·2
	Kirkwall	42	42	42·0	+1·8		Ballantrae .. .	45	37	41·7	-0·4
	Wick	44	42	43·8	0·0	ENGLAND, N.W. ..	Port Erin	45	41	43·9	-0·8
SCOTLAND, E. ..	Cromarty	40	37	38·7	+0·1	ENGLAND, S.W. ..	Newquay	48	45	46·7	+1·2
	Pennan Bay	44	39	41·6	+1·8		Scilly	48	47	47·1	—
	Aberdeen, Cove Bay	43	40	41·7	+2·5		Plymouth‡	48	48	47·8	+1·4
SCOTLAND, N.E. ..	Burnmouth, Berwick	40	39	39·2	0·0		Salcombe	47	37	44·1	-1·2
	Scarborough	41	35	37·9	-2·0	IRELAND, N.W. ..	Sheephaven	45	44	44·9	+0·3
ENGLAND, E. ..	Shipwash Lightship	44	37	40·7	+1·5		Teelin	43	39	40·9	-2·6
	Margate‡	42	38	40·1	+0·9	IRELAND, S.W. ..	Cleggan	40	34	38·3	-5·6
ENGLAND, S.E. ..	Eastbourne‡	43	38	40·9	+1·5		Seafield	44	37	41·8	-3·2
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked **S** are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTH WEEK—January 28th to February 3rd, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	45	10	35·8	24·2	30·3	— 7·6	0	— 7	82	+ 45	4	— 2	0·44	—0·99	2·8	+1·6	36	+21
Eastern.																		
1. SCOTLAND, EAST ...	43	4	35·1	22·5	29·1	— 8·7	0	— 9	90	+ 49	4	0	0·36	—0·21	3·1	+1·1	38	+14
2. ENGLAND, N.E.	42	13	35·5	23·6	29·8	— 9·4	0	— 10	85	+ 54	4	— 1	0·24	—0·12	3·3	+1·3	38	+15
3. ENGLAND, EAST ...	43	14	36·2	24·7	30·7	— 8·2	0	— 10	79	+ 45	3	— 1	0·19	—0·19	3·2	+0·8	37	+10
4. MIDLAND COUNTIES ...	46	11	36·1	21·3	29·0	—10·1	0	— 12	91	+ 57	1	— 3	0·09	—0·42	2·9	+1·0	33	+11
5. ENGLAND, S.E.	43	13	36·9	24·8	31·1	— 9·3	0	— 14	76	+ 51	1	— 4	0·05	—0·48	3·8	+1·8	43	+20
Western.																		
6. SCOTLAND, WEST ...	46	12	37·1	26·0	31·8	— 8·1	0	— 12	71	+ 44	1	— 3	0·04	—0·99	3·4	+1·8	41	+21
7. ENGLAND, N.W.	43	13	36·2	24·6	30·6	— 9·4	0	— 11	80	+ 55	2	— 3	0·10	—0·60	3·8	+2·2	44	+25
8. ENGLAND, S.W.	45	9	38·1	25·2	31·9	— 9·7	0	— 17	71	+ 51	1	— 4	0·01	—0·81	4·4	+2·4	49	+27
9. IRELAND, NORTH ...	45	15	39·0	28·3	33·8	— 6·9	0	— 14	57	+ 34	1	— 4	0·06	—0·71	3·4	+1·7	40	+19
10. IRELAND, SOUTH ...	49	13	39·7	27·7	34·0	— 8·4	0	— 21	56	+ 39	1	— 3	0·03	—0·79	3·4	+1·4	39	+16
11. ENGLISH CHANNEL ...	47	28	42·7	§32·7	37·9	— 6·5	2	— 22	34	+ 26	1	— 4	0·05	—0·61	5·2	+2·7	57	+30

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 9 Weeks, December 3rd, 1911, to February 3rd, 1912.

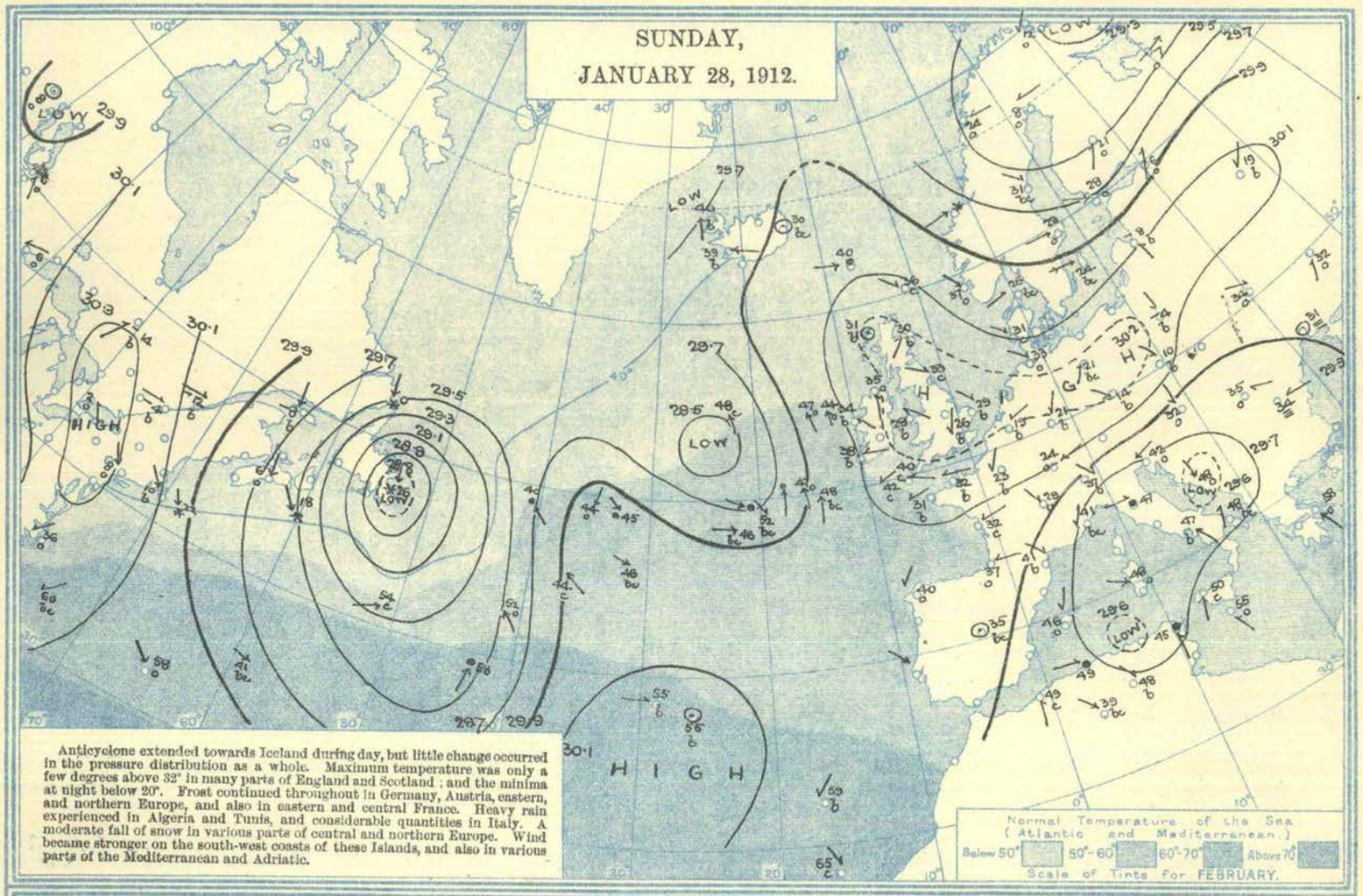
0. SCOTLAND, NORTH ...	57	10	*	*	*	*	77	+ 9	265	— 31	49	+ 1	9·50	—2·54	1·1	+0·4	16	+ 6
Eastern.																		
1. SCOTLAND, EAST ...	56	4	*	*	*	*	48	— 19	339	— 18	46	+ 9	7·12	+1·58	1·3	+0·1	18	+ 1
2. ENGLAND, N.E	55	13	*	*	*	*	72	— 4	279	— 11	46	+13	6·46	+2·46	1·4	+0·1	18	+ 1
3. ENGLAND, EAST ...	55	14	*	*	*	*	108	+ 26	219	—112	46	+11	6·65	+2·95	1·4	—0·2	18	— 3
4. MIDLAND COUNTIES ...	56	11	*	*	*	*	115	+ 21	274	— 59	44	+10	8·74	+4·16	1·4	+0·1	18	+ 1
5. ENGLAND, S.E.	54	13	*	*	*	*	155	+ 31	173	— 70	43	+ 8	9·53	+4·65	1·4	—0·2	17	— 3
Western.																		
6. SCOTLAND, WEST ...	55	12	*	*	*	*	91	— 9	234	+ 4	47	+ 5	12·06	+1·94	1·3	+0·2	18	+ 3
7. ENGLAND, N.W.	58	13	*	*	*	*	114	+ 15	217	— 16	45	+ 7	9·19	+2·75	1·4	+0·2	18	+ 3
8. ENGLAND, S.W.	57	9	*	*	*	*	187	+ 23	143	— 31	48	+ 8	12·80	+4·59	1·8	+0·2	23	+ 3
9. IRELAND, NORTH ...	58	15	*	*	*	*	147	+ 25	175	— 28	42	— 2	9·08	+1·76	1·6	+0·3	21	+ 4
10. IRELAND, SOUTH ...	57	13	*	*	*	*	191	— 3	143	— 9	49	+ 8	11·83	+3·24	1·7	+0·1	22	+ 1
11. ENGLISH CHANNEL ...	57	28	*	*	*	*	322	+ 68	34	— 24	45	+ 1	9·86	+2·94	2·0	0·0	24	0

THE YEAR.—Aggregates, &c., for the Period of 5 Weeks, December 31st, 1911, to February 3rd, 1912.

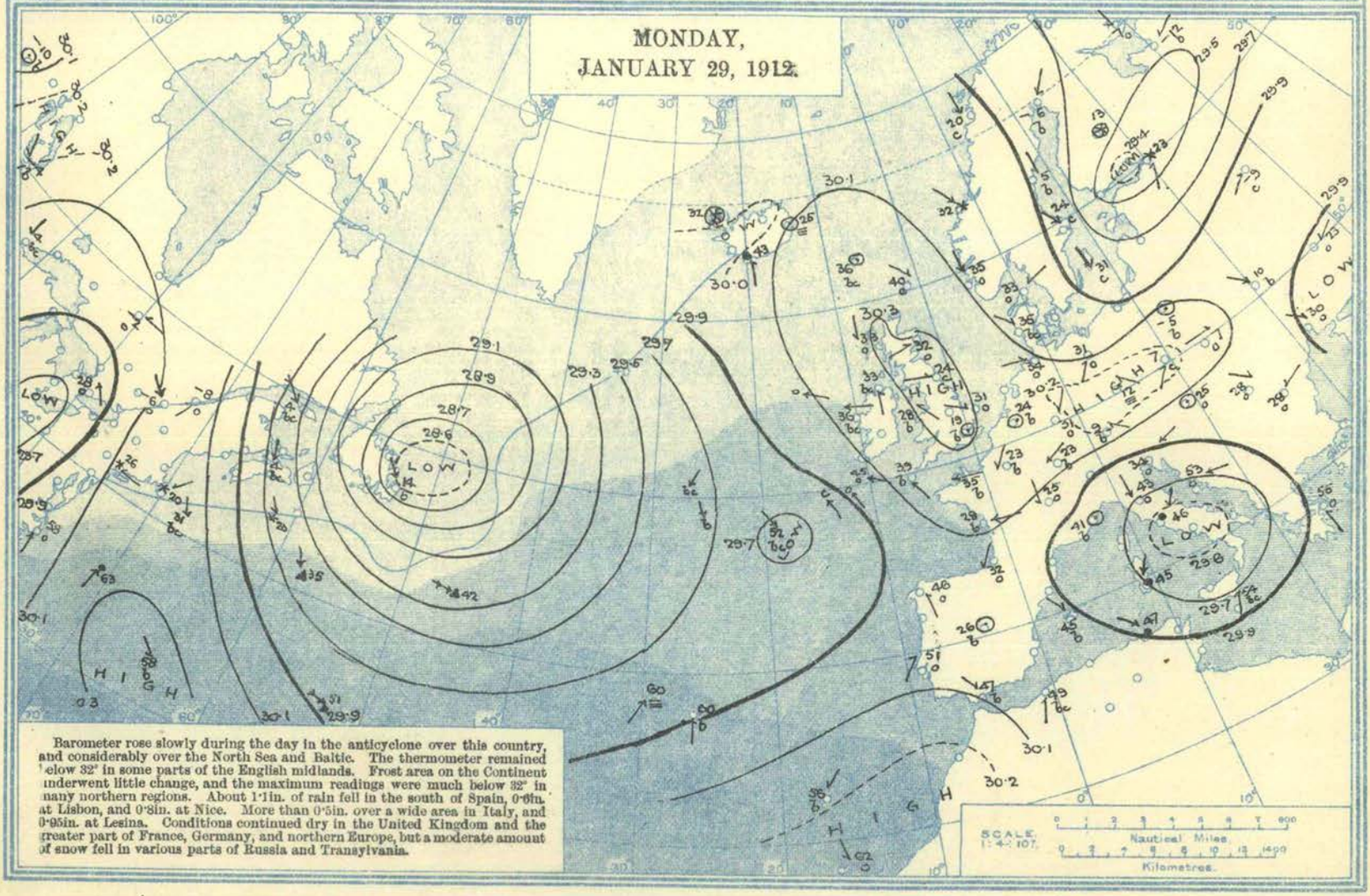
0. SCOTLAND, NORTH ...	57	10	*	*	*	*	24	— 10	197	+ 23	24	— 3	3·76	—2·98	1·3	+0·4	18	+ 6
Eastern.																		
1. SCOTLAND, EAST ...	56	4	*	*	*	*	11	— 26	233	+ 32	24	+ 4	2·95	+0·05	1·4	0·0	19	0
2. ENGLAND, N.E.	55	13	*	*	*	*	22	— 19	196	+ 31	23	+ 4	3·07	+1·09	1·3	—0·2	17	— 3
3. ENGLAND, EAST ...	53	14	*	*	*	*	29	— 14	164	— 24	22	+ 3	2·87	+0·91	1·3	—0·5	16	— 6
4. MIDLAND COUNTIES ...	55	11	*	*	*	*	30	— 22	209	+ 23	20	+ 1	3·89	+1·43	1·2	—0·3	15	— 4
5. ENGLAND, S.E.	53	13	*	*	*	*	47	— 14	137	— 5	19	0	3·30	+0·73	1·2	—0·4	15	— 5
Western.																		
6. SCOTLAND, WEST ...	54	12	*	*	*	*	26	— 26	181	+ 47	20	— 3	4·61	—0·67	1·5	+0·2	20	+ 3
7. ENGLAND, N.W.	56	13	*	*	*	*	34	— 16	176	+ 42	20	— 1	3·26	—0·17	1·7	+0·4	22	+ 5
8. ENGLAND, S.W.	54	9	*	*	*	*	69	— 15	125	+ 21	22	0	4·62	+0·48	1·8	+0·1	22	+ 1
9. IRELAND, NORTH ...	54	15	*	*	*	*	65	— 2	115	— 1	17	— 7	3·33	—0·56	1·7	+0·3	22	+ 4
10. IRELAND, SOUTH ...	55	13	*	*	*	*	91	— 12	92	+ 6	22	0	4·49	+0·02	1·8	+0·1	22	+ 1
11. ENGLISH CHANNEL ...	54	28	*	*	*	*	144	+ 19	34	— 5	18	— 6	3·22	—0·20	2·1	0·0	25	0

NOTES ON TABLE IV.

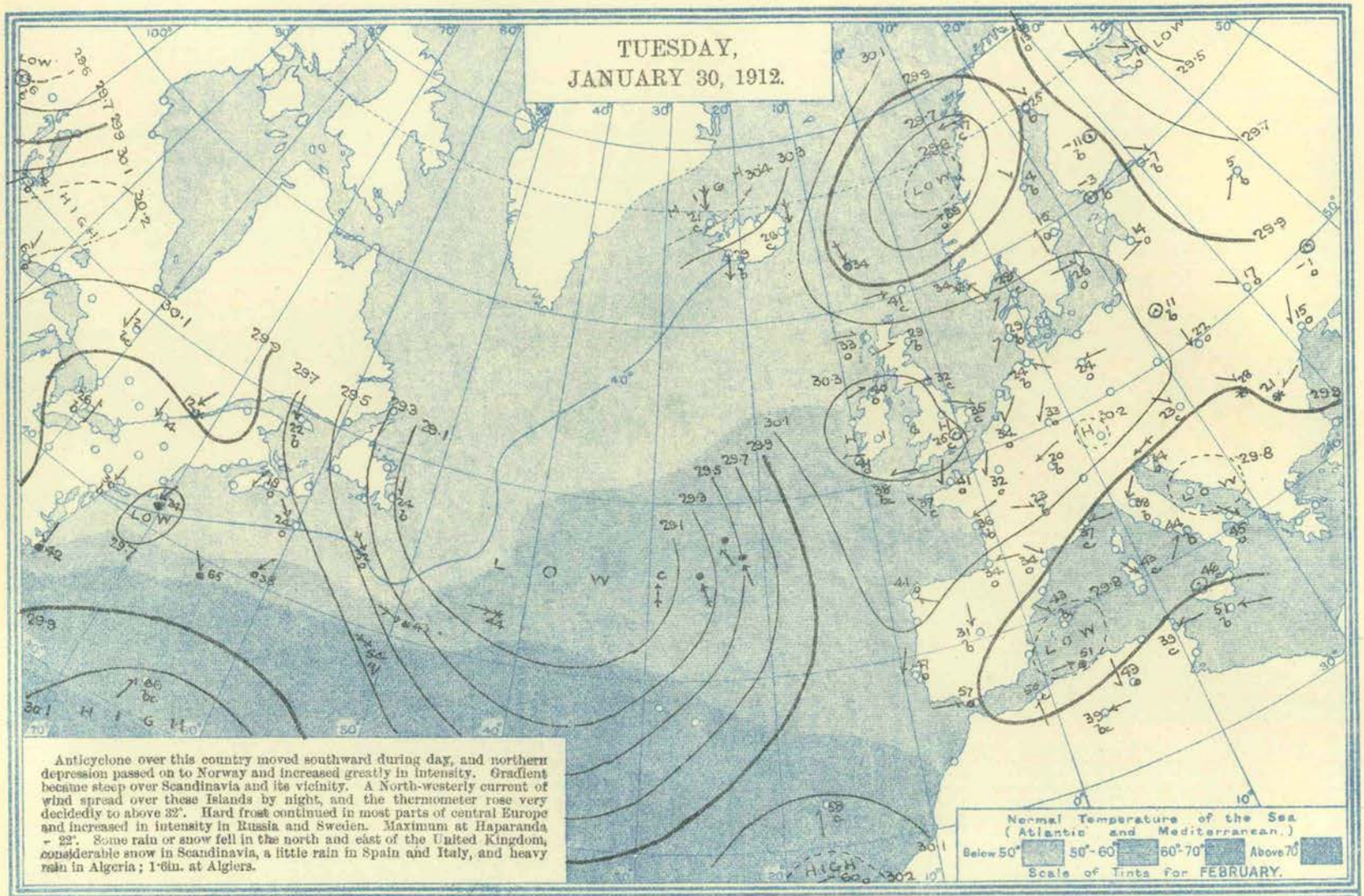
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



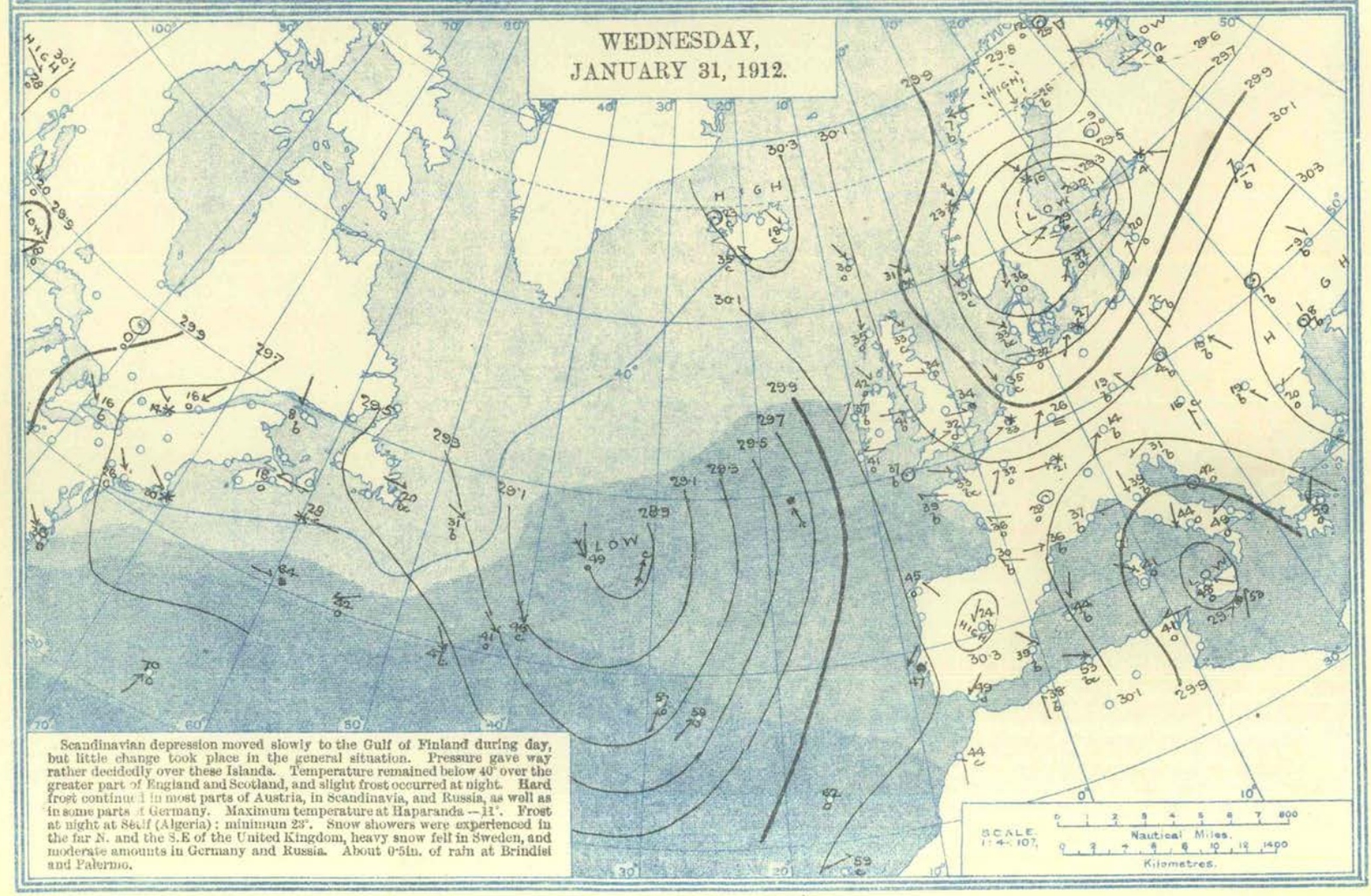
Anticyclone extended towards Iceland during day, but little change occurred in the pressure distribution as a whole. Maximum temperature was only a few degrees above 32° in many parts of England and Scotland; and the minima at night below 20°. Frost continued throughout in Germany, Austria, eastern, and northern Europe, and also in eastern and central France. Heavy rain experienced in Algeria and Tunis, and considerable quantities in Italy. A moderate fall of snow in various parts of central and northern Europe. Wind became stronger on the south-west coasts of these Islands, and also in various parts of the Mediterranean and Adriatic.



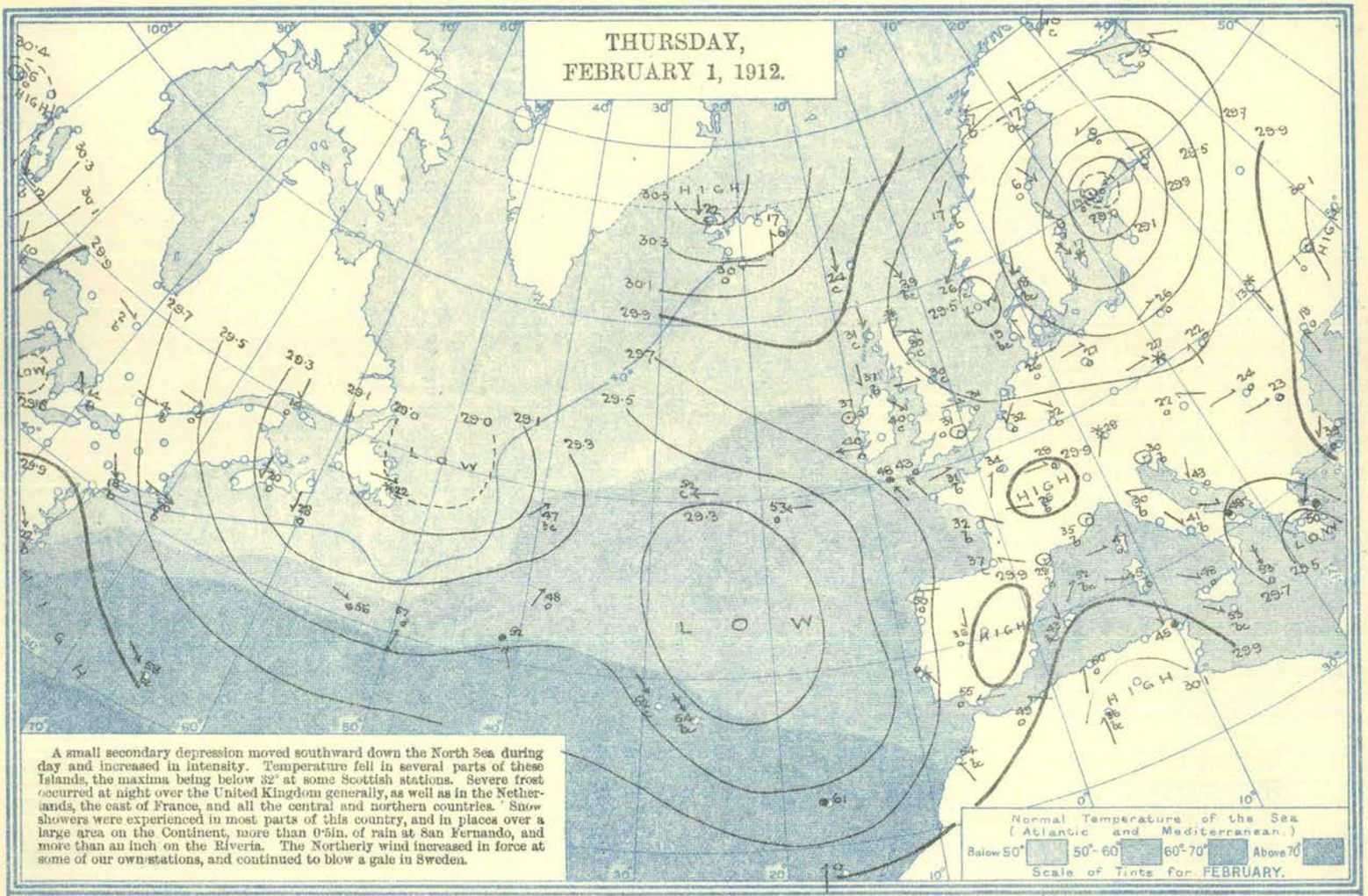
Barometer rose slowly during the day in the anticyclone over this country, and considerably over the North Sea and Baltic. The thermometer remained below 32° in some parts of the English midlands. Frost area on the Continent underwent little change, and the maximum readings were much below 32° in many northern regions. About 1·1in. of rain fell in the south of Spain, 0·6in. at Lisbon, and 0·8in. at Nice. More than 0·5in. over a wide area in Italy, and 0·95in. at Lesina. Conditions continued dry in the United Kingdom and the greater part of France, Germany, and northern Europe, but a moderate amount of snow fell in various parts of Russia and Transylvania.

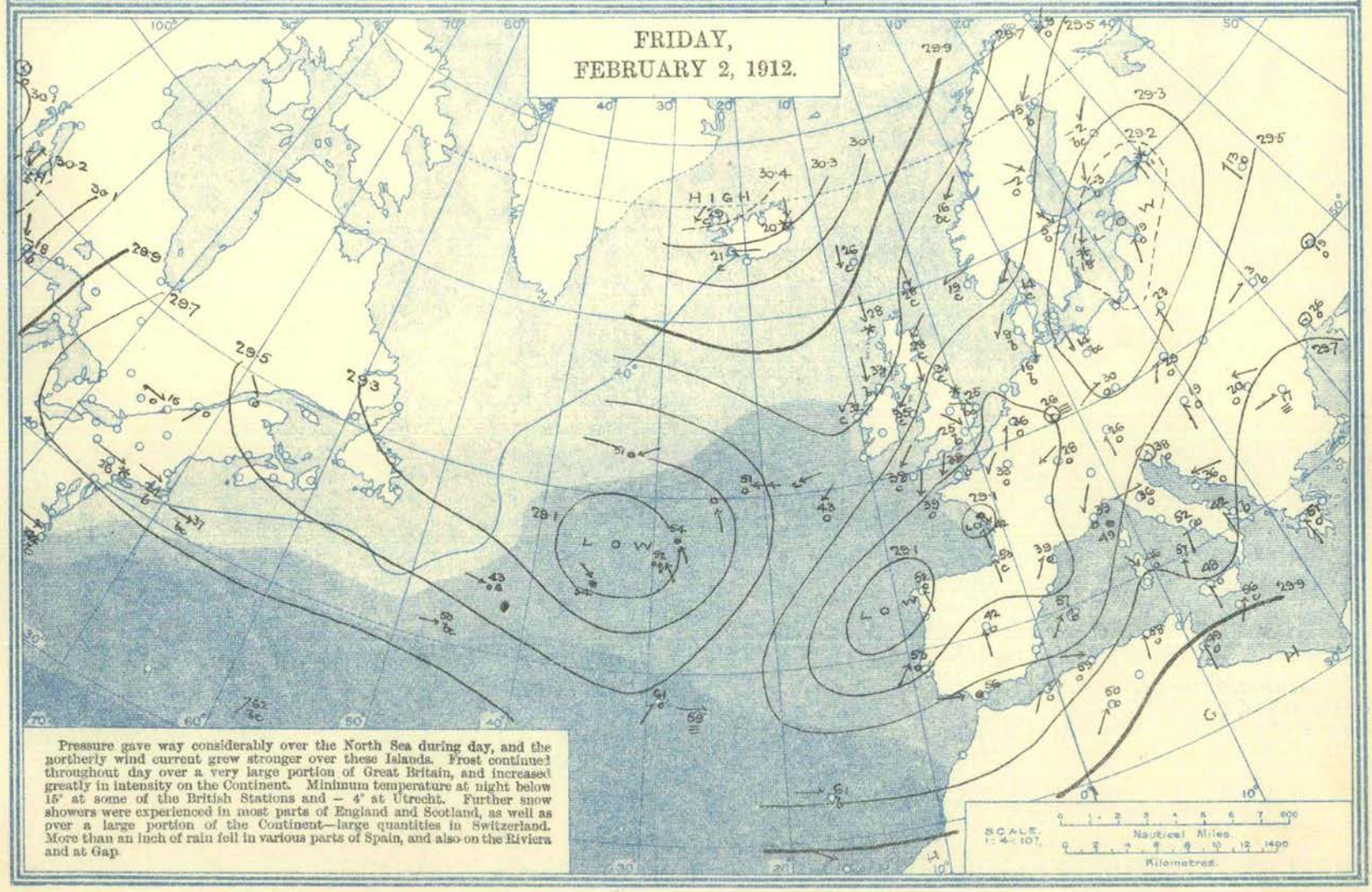


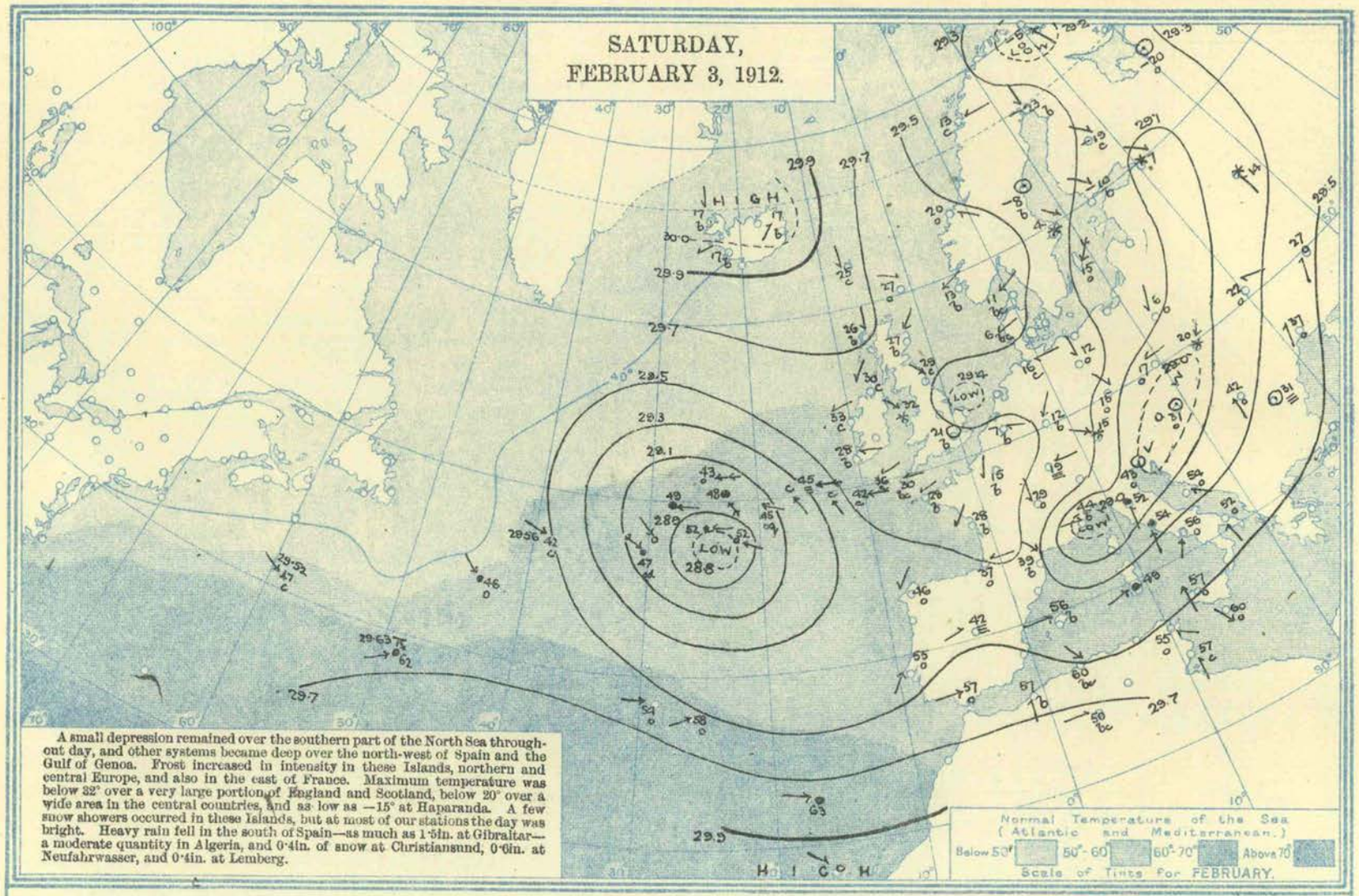
Anticyclone over this country moved southward during day, and northern depression passed on to Norway and increased greatly in intensity. Gradient became steep over Scandinavia and its vicinity. A North-westerly current of wind spread over these Islands by night, and the thermometer rose very decidedly to above 32°. Hard frost continued in most parts of central Europe and increased in intensity in Russia and Sweden. Maximum at Haparanda, – 22°. Some rain or snow fell in the north and east of the United Kingdom, considerable snow in Scandinavia, a little rain in Spain and Italy, and heavy rain in Algeria; 1·6in. at Algiers.



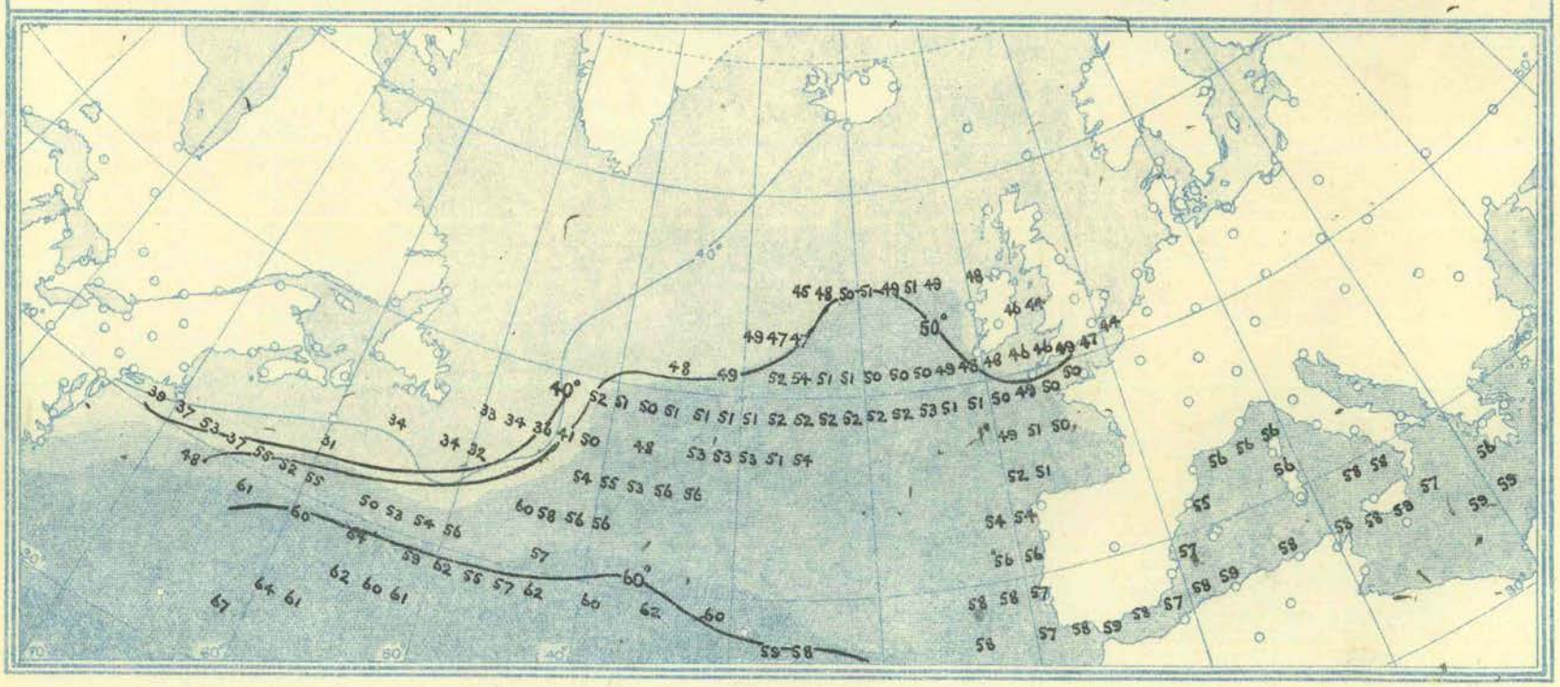
Scandinavian depression moved slowly to the Gulf of Finland during day, but little change took place in the general situation. Pressure gave way rather decidedly over these Islands. Temperature remained below 40° over the greater part of England and Scotland, and slight frost occurred at night. Hard frost continued in most parts of Austria, in Scandinavia, and Russia, as well as in some parts of Germany. Maximum temperature at Haparanda —11°. Frost at night at Sétif (Algeria); minimum 23°. Snow showers were experienced in the far N. and the S.E of the United Kingdom, heavy snow fell in Sweden, and moderate amounts in Germany and Russia. About 0·5in. of rain at Brindisi and Palermo.


THURSDAY,
FEBRUARY 1, 1912.
HIGH
LOW
L O W
A small secondary depression moved southward down the North Sea during day and increased in intensity. Temperature fell in several parts of these Islands, the maxima being below 32° at some Scottish stations. Severe frost occurred at night over the United Kingdom generally, as well as in the Netherlands, the east of France, and all the central and northern countries. Snow showers were experienced in most parts of this country, and in places over a large area on the Continent, more than 0·5in. of rain at San Fernando, and more than an inch on the Riveria. The Northerly wind increased in force at some of our own stations, and continued to blow a gale in Sweden.
Normal Temperature of the Sea (Atlantic and Mediterranean.)
Below 50° 50°-60° 60°-70° Above 70°
Scale of Tints for FEBRUARY.


FRIDAY,
FEBRUARY 2, 1912.
HIGH
L O W
Pressure gave way considerably over the North Sea during day, and the northerly wind current grew stronger over these Islands. Frost continued throughout day over a very large portion of Great Britain, and increased greatly in intensity on the Continent. Minimum temperature at night below 15° at some of the British Stations and − 4° at Utrecht. Further snow showers were experienced in most parts of England and Scotland, as well as over a large portion of the Continent—large quantities in Switzerland. More than an inch of rain fell in various parts of Spain, and also on the Riviera and at Gap.
SCALE.
Nautical Miles
Kilometres.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 3RD FEBRUARY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 6. SIXTH WEEK, SUNDAY, FEBRUARY 4TH, TO SATURDAY, FEBRUARY 10TH, 1912.

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I.—General Remarks.

Weather. At the beginning of the week the general condition was very wintry, and snow showers were experienced in almost all parts of the Kingdom. After Monday, however, a thaw extended over the Kingdom from the southward, the air became humid, and rain, alternating with occasional bright intervals, was experienced in all districts.

Temperature was below the average except in the English Channel. In England S.E. the deficit was less than 1°, but in the Midlands and the north-east of Great Britain it amounted to more than 3°. On Sunday (and at some places in the north and north-west on Monday also) the thermometer remained below 32° throughout the day. Over the Kingdom as a whole the highest of the maxima occurred on the 9th, but in some localities on the 8th or 10th. In England S.W. and N.W. and the Midland Counties the thermometer rose to 56°, while elsewhere the values varied between 54° and 52°. The lowest of the minima, which were recorded on the 4th or 5th at nearly all stations, were below zero in Scotland E. (−5° at West Linton, and −2° at Balmoral), 7° in Scotland N. and England N.W., 9° in the Midland Counties, 16° in England E. and Ireland N. and 27° in the English Channel. Late in the week the minima were above 40° very generally. The lowest grass readings reported were −7° at Crathes, −5° at Balmoral, −1° at Bawtry, 1° at Worksop, 2° at Newton Rigg, 4° at Marchmont, 5° at Rounton and 6° at Rauceby.

Mean Temperature of the Sea. On most parts of the coast the temperature of the water was lower than the average, and also lower than the corresponding week of last year. The values ranged from nearly 46° at Scilly and Salcombe to 40° or below at most stations on the shores of the North Sea, and also at Cleggan, the lowest value being 36° at Cromarty.

Rainfall did not, as a whole, differ greatly from the normal, but in Scotland N. it was much less, and in Scotland W. and Ireland S. considerably more. At Colmonell on the 7th as much as 1·14 in. of rain was experienced.

Bright Sunshine was less than the average except in Scotland N. and England N.W. The percentage of the possible duration ranged from 23 in England E. and N.W. to 11 in Ireland S. and to 7 in Scotland W.

Barometer and Wind. At the beginning of the week the barometer was lowest in a depression some distance to the south-westward of these Islands, and the main wind current was Easterly, but during Monday the depression began to move northward outside our western coasts, and the wind over these Islands tended to draw into South-East. As pressure continued lowest on the Atlantic to the westward of this country during the subsequent days the South-Easterly current became more firmly established, while in some localities in the south and west a breeze from the Southward was experienced. On Wednesday Southerly gales occurred on some extreme points of our western and northern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 23.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Moderate	Deficient	Moderate	Deficient	Deficient	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Light	Moderate	Moderate	Moderate	Heavy	Heavy	Heavy	Moderate	Moderate	Moderate	Heavy	Moderate
	Sunshine ...	Moderate	Scanty	Scanty	Scanty	Moderate	Scanty	Very scanty	Moderate	Scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 10 weeks from Dec. 3rd, 1911.	Warmth ...	2 * 2	2 * 3	3 * 3	3 * 1	3 * 3	3 * 2	3 * 4	3 * 3	4 * 1	4 * 3	3 * 4	6 * 1
	Rainfall ...	2 * 4	5 * 0	5 * 0	7 * 0	7 * 1	8 * 1	7 * 2	6 * 2	5 * 1	5 * 2	6 * 2	7 * 1
	Sunshine ...	4 * 1	3 * 3	2 * 2	3 * 6	3 * 4	2 * 7	3 * 4	4 * 2	2 * 4	5 * 2	2 * 3	2 * 4

PAST SEASONS.

WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

(22992—24.) Wt. 113—4. 450. 2/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*46*	*9th*	*26*	*4, 5*	*41·1*	*34·8*	*38·0*	—	*0*	*28*	•	•	36·1	•	•	•	*7*	*0·87*	—	*1·6*	—	*20*	—	*Baltasound.*
a Lerwick	46	9th	25	4th	41·7	34·0	37·9	- 0·3	0	29	•	•	•	•	•	•	7	0·78	—	1·3	- 0·4	16	- 4	Deerness.
a, Islands .. *a* Stornoway	52	9th	15	5th	42·9	29·4	36·2	- 2·8	3	45	•	•	•	•	•	•	3	0·50	- 0·57	1·9	+ 0·1	23	+ 1	Stornoway.
a Castlebay, Barra Isd.	*49*	*9th*	*28*	*5th*	*43·4*	*35·3*	*39·4*	- *1·8*	*4*	*25*							*3*	*0·73*	—	*1·5*	—	*17*	—	*Castlebay.*
a Wick	45	7th	13	6th	40·1	28·9	34·5	- 3·1	0	53	•	•	•	•	•	•	5	0·62	+ 0·06	•	•	•	•	
p Strathpeffer ..	49	9th	7	5th	39·5	25·8	32·7	- 4·4	0	65	•	•	•	•	•	•	4	0·20	- 0·47	1·8	- 0·1	21	- 1	Strathpeffer.
b, Mainland. *p* Glencarron ..	53	9th	7	5th	40·7	26·9	33·8	- 2·7	0	57	•	•	•	•	•	•	4	0·29	- 1·61	•	•	•	•	
p Fort Augustus..	50	9th	8	5th	43·3	29·6	36·5	- 1·2	4	45	•	•	•	•	•	•	4	0·18	- 0·90	1·7	+ 0·5	20	+ 6	Fort Augustus.
p Fort William ..	53	9th	16	4th	42·6	31·6	37·1	- 2·0	2	37	•	•	•	•	•	•	5	0·68	- 1·19	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	49	9th	1	5th	41·3	28·0	34·7	- 3·5	0	51	4	-7	33·7	-1·0	37·4	+0·1	—	—	—	1·0	—	12	—	Crathes S.
a Nairn	52	9th	4	5th	40·1	23·6	31·9	- 5·5	0	71	•	•	•	•	•	•	3	0·25	- 0·25	*1·7*	—	*20*	—	*Gordon Castle.*
a Aberdeen ..	45	9, 10	10	5th	40·7	28·6	34·7	- 3·2	0	51	•	•	•	•	39·2	+0·5	4	0·17	- 0·28	2·2	—	26	—	Nairn.
a Balmoral ..	47	9th	-2	5th	42·0	23·9	33·0	- 1·0	0	63	6	1·01	+ 0·47	1·1	- 1·2	13	-14	Aberdeen.
p Crieff	45	8th	13	5th	38·4	28·3	33·4	- 4·3	0	60	4	-5	•	•	•	•	6	0·43	- 0·24	•	•	•	•	Balmoral.
a Leith	50	9th	12	5th	42·9	28·4	35·7	- 3·4	3	49	•	•	•	•	•	•	4	1·44	+ 0·59	1·1	—	13	—	Balruddery.
p West Linton .. S	50	9th	-5	4th	38·0	23·7	30·9	- 5·5	0	78	•	•	•	•	•	•	5	0·27	- 0·11	•	•	•	•	
p Marchmont ..	44	9th	12	4th	37·4	26·7	32·1	- 4·7	0	69	4	4	32·1	-2·7	•	•	5	0·34	—	*1·7*	—	*20*	—	*West Linton.*
																	7	0·65	+ 0·12	1·0	- 1·1	12	-12	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	47	10th	10	5th	40·3	27·7	34·0	- 4·0	0	56	4	14	32·8	-2·7	37·6	-0·6	4	0·54	+ 0·06	1·3	—	15	—	Cockle Park.
a Shields	49	10th	14	4, 5	41·1	28·7	34·9	- 3·9	0	50	•	•	•	•	•	•	4	0·25	- 0·09	*0·5*	- *1·0*	*6*	-*11*	*Newcastle.*
p Durham	48	10th	10	4, 5	37·9	27·0	32·5	- 4·8	0	67	3	10	•	•	•	•	4	0·31	- 0·02	1·5	- 0·6	17	- 7	Durham.
a, North .. *a* Rounton	50	9th	10	4th	40·2	29·1	34·7	- 2·4	0	51	6	5	33·4	•	•	•	5	0·46	+ 0·08	•	•	•	•	Rounton.
a West Witton	*46*	*10th*	*10*	*4th*	*39·1*	*25·9*	*32·5*	—	*0*	*67*	4	10	33·3	•	38·4	•	5	*0·83*	—	•	•	•	•	*West Witton.*
p Scarborough	49	10th	28	4, 6	41·4	34·7	38·1	- 0·6	0	27	•	•	•	•	•	•	6	0·12	- 0·32	1·0	—	11	—	Scarborough.
p York	52	10th	12	4th	40·4	29·1	34·8	- 3·5	0	50	•	•	34·6	-2·4	40·3	+0·1	5	0·40	+ 0·01	1·0	- 0·7	11	- 8	York.
a Spurn Head	48	10th	25	4th	40·1	30·9	35·5	- 3·4	0	46	3	15	34·4	-2·0	41·3	+0·2	4	0·29	0·00	*1·8*	—	*20*	—	*Hull.*
b, South .. *a* Lincoln	51	10th	20	5th	42·2	30·6	36·4	- 1·5	1	40	•	•	32·1	-3·4	39·5	+0·2	5	0·40	+ 0·04	•	•	•	•	Lincoln.
a Fulbeck	50	10th	18	5th	41·3	29·6	35·5	- 2·7	0	46	5	6	34·2	-3·5	41·7	+0·1	5	0·51	+ 0·13	2·5	—	28	—	Rauceby.
																				3·0	—	33	—	Skegness.
3. ENGLAND, E.											2	22	35·9	-1·9	40·6	0·0	—	—	—	*3·5*	—	*39*	—	*Lowestoft.*
p Cromer	52	9, 10	22	4th	43·6	33·0	38·3	+ 1·3	4	33	•	•	•	•	•	•	7	0·30	—	2·4	—	26	—	Cromer.
p Hillington	52	9th	16	4th	42·3	31·3	36·8	- 0·8	1	38	4	14	•	•	•	•	4	0·30	- 0·13	2·9	+ 0·7	32	+ 8	Hillington.
a, North .. *a* Yarmouth ..	56	10th	20	4th	42·6	31·3	37·0	- 0·6	2	38	•	•	35·4	-1·6	41·6	+0·6	2	0·26	- 0·08	3·6	—	40	—	Yarmouth
a Norwich	50	8, 9, 10	21	4th	42·8	32·3	37·6	+ 0·1	2	35	3	18	33·8	•	•	•	4	0·24	—	*3·5*	—	*39*	—	*Norwich.*
p Geldeston	52	9, 10	24	4th	43·9	35·1	39·5	+ 1·0	5	25	•	•	•	•	•	•	6	0·21	- 0·13	3·4	+ 1·1	37	+12	Geldeston.
p Cambridge	51	9th	21	5th	42·7	33·6	38·2	- 0·1	2	30	5	14	34·2	-2·6	40·8	-0·1	5	0·29	- 0·04	2·1	- 0·2	23	- 2	Cambridge.
a Felixstowe	*47*	*10th*	*26*	*4, 5*	*41·4*	*33·4*	*37·4*	- *1·1*	*0*	*32*	•	•	•	•	•	•	*5*	*0·24*	—	*2·9*	—	*32*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	47	10th	20	4th	41·0	32·3	36·7	- 1·8	0	37	2	23	37·5	-1·1	43·2	+0·4	4	0·27	—	2·2	—	24	—	Clacton.
a Rothamsted	49	9, 10	20	5th	42·4	30·3	36·4	- 1·2	1	42	•	•	•	•	•	•	5	0·64	+ 0·19	1·3	- 0·8	14	- 9	Rothamsted.
a Shoeburyness	*51*	*9th*	*22*	*4th*	*44·4*	*31·9*	*38·2*	- *0·7*	*7*	*37*	4	18	37·1	-1·2	•	•	*4*	*0·34*	+ *0·06*	*1·7*	—	*18*	—	*Southend.*
p Tottenham	51	8, 9	22	5th	43·6	35·0	39·3	+ 0·3	4	26	3	17	•	•	42·5	+0·3	4	0·59	—	0·5	—	5	—	Tottenham.
4. MIDLAND COUNTIES.											3	6	33·1	-2·9	40·3	+0·5	—	—	—	*1·8*	—	*20*	—	*Huddersfield.*
a Harrogate	48	10th	11	5th	36·7	27·3	32·0	- 5·0	0	70	4	-1	34·4	-2·7	38·5	-0·5	6	0·77	+ 0·25	1·6	—	18	—	Harrogate.
a Bawtry	49	10th	9	4th	41·0	29·3	35·2	- 3·0	0	48	6	1	33·2	•	39·0	•	5	0·48	+ 0·10	2·0	+ 0·2	22	+ 3	Worksop.
p Buxton	*47*	*9, 10*	*14*	*4th*	*37·9*	*27·6*	*32·8*	- *2·7*	*0*	*64*	6	9	33·1	-2·8	40·9	+0·3	*5*	*0·74*	- *0·26*	*1·8*	—	*20*	—	*Buxton.*
a, East .. *a* Nottingham	53	9th	17	4th	42·3	28·7	35·5	- 2·5	1	47	4	16	32·2	-3·4	37·7	-0·5	5	0·51	+ 0·11	2·5	—	28	—	Nottingham.
p Birmingham, Edgbsn.	52	9th	13	4th	40·6	30·9	35·8	- 2·2	0	43	3	12	35·3	-3·2	42·9	-0·1	5	0·66	+ 0·24	1·8	—	20	—	Birmingham.
a Raunds	52	9, 10	19	4th	43·1	29·4	36·3	- 1·4	3	45	4	17	33·5	•	43·1	•	4	0·60	—	•	•	•	•	Raunds.
a Oxford	53	9th	18	5th	43·7	30·9	37·3	- 1·7	5	40	4	12	•	•	•	•	6	0·61	+ 0·21	1·9	- 0·2	20	- 3	Oxford.
											3	13	33·3	-2·9	40·3	+0·3	—	—	—	1·7	—	19	—	Sheffield.
a Cheadle	50	10th	17	4, 5	40·6	29·5	35·1	- 2·0	0	48	7	11	•	•	•	•	5	0·49	- 0·02	•	•	•	•	Cheadle.
p Shrewsbury	52	9th	12	4th	44·1	22·9	33·5	- 5·6	6	68	3	14	•	•	•	•	6	0·37	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	53	9th	13	5th	42·2	28·4	35·3	- 3·6	1	48	3	10	•	•	•	•	4	0·85	+ 0·35	•	•	•	•	Hereford.
a Cirencester	53	9th	19	4, 5	43·1	28·4	35·8	- 1·9	3	49	5	18	35·4	•	40·8	•	5	0·57	+ 0·07	1·6	- 0·6	17	- 6	Cirencester.
a Bath	56	9th	20	4th	46·0	30·1	38·1	- 1·9	11	45	•	•	35·5	-3·2	41·7	-1·4	6	0·65	+ 0·14	1·6	—	17	—	Bath.
5. ENGLAND, S.E.											2	12	37·9	-0·1	43·4	+0·7	—	—	—	•	•	•	•	Canterbury.
p Kew	52	9th	23	5th	44·4	35·9	40·2	+ 0·9	7	23	4	17	35·1	-1·9	42·7	+0·7	5	0·43	+ 0·06	1·1	- 0·7	12	- 7	Kew.
a Marlborough	52	9th	20	4th	43·3	30·6	37·0	- 0·9	4	41	3	14	•	•	•	•	6	0·98	+ 0·43	0·9	- 1·0	10	-10	Marlborough.
a Margate	52	9th	24	5th	45·4	34·1	39·8	+ 0·4	10	30	3	—	37·9	-0·5	42·0	+1·2	4	0·23	- 0·13	1·4	- 0·8	15	- 9	Margate.
a Wisley, Surrey ..	51	9, 10	21	4th	45·0	33·0	39·0	- 0·6	8	34	5	11	35·5	-1·7	41·3	+0·1	5	0·68	—	1·4	—	15	—	Wisley.
a Swarraton	51	9th	19	4th	44·9	30·7	37·8	- 0·4	8	42	4	15	37·9	-0·4	43·8	+1·2	5	0·89	+ 0·34	2·3	—	25	—	Worthing.
a Tunbridge Wells ..	52	9th	16	5th	44·8	30·7	37·8	- 0·4	8	42	4	6	36·6	0·0	•	•	5	0·80	+ 0·26	1·4	- 0·7	15	- 8	Tunbridge Wells.
a Dungeness	50	9th	15	4th	45·4	34·4	39·9	+ 0·4	10	29	•	•	•	•	•	•	3	0·47	+ 0·09	1·9	—	20	—	Littlestone.
p Hastings.. ..	51	9th	24	4, 5	45·0	37·6	41·3	+ 1·5	8	18	2	19	37·4	•	43·1	•	6	0·79	+ 0·29	*1·6*	- *0·9*	*17*	- *10*	*Hastings.*
p Southampton	53	9th	22	4th	45·0	35·7	40·4	- 0·3	8	25	4	14	•	•	•	•	7	1·00	+ 0·47	1·5	- 0·8	16	- 9	Southampton.
a Ventnor	51	9th	25	4th	46·6	37·0	41·8	+ 0·2	13	21	•	•	•	•	•	•	7	0·73	+ 0·21	1·8	- 0·7	19	- 8	Ventnor.
											3	19	37·2	-1·8	42·7	-0·5	—	—	—	*1·6*	—	*17*	—	*Portsmouth.*
											—	—	39·4	•	44·1	•	—	—	—	2·3	- 0·1	25	- 1	Eastbourne.
											•	•	36·7	•	40·1	•	—	—	—	*1·5*	—	*16*	—	*Bournemouth.*
LONDON.											3	18	•	•	41·4	•	—	—	—	*2·1*	- *0·3*	*23*	- *3*	*Brighton.*
a Westminster	*54*	*9th*	*22*	*4th*	*46·6*	*34·7*	*40·7*	+ *1·4*	*13*	*29*	3	21	•	•	•	•	*5*	*0·37*	- *0·01*	*0·9*	- *0·1*	*10*	- *1*	*Westminster.*
a Greenwich	*53*	*9th*	*20*	*5th*	*45·1*	*33·0*	*39·1*	+ *0·1*	*9*	*34*	4	14	•	•	•	•	*6*	*0·44*	+ *0·08*	*1·4*	- *0·4*	*15*	- *4*	*Greenwich.*
a Hampstead	*51*	*8th*	*20*	*5th*	*43·3*	*32·3*	*37·8*	—	*4*	*35*	4	15	•	•	•	•	*5*	*0·56*	—	*0·6*	—	*7*	—	*Hampstead.*
a Camden Square ..	*53*	*9th*	*21*	*4, 5*	*45·0*	*32·9*	*39·0*	—	*8*	*34*	3	19	•	•	•	•	*6*	*0·52*	—	*0·6*	—	*7*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	48	9th	15	4th	41·3	29·0	35·2	- 3·5	0	48	•	•	•	•	•	•	4	0·94	+ 0·01	•	•	•	•	
p Glasgow	52	9th	16	4th	40·4	32·0	36·2	- 2·3	0	41	3	11	•	•	•	•	5	0·97	+ 0·29	0·1	- 1·2	1	-14	Glasgow.
p Rothesay	50	9th	22	4th	41·6	33·0	37·3	- 2·2	0	33	•	•	•	•	40·3	-1·3	6	1·20	+ 0·29	•	•	•	•	
a Kilmarnock ..	50	9th	12	4th	42·3	28·9	35·6	- 3·3	1	46	•	•	•	•	•	•	5	0·69	—	*1·4*	—	*16*	—	*Kilmarnock.*
a Colmonell ..	50	9th	12	4th	42·1	29·3	35·7	- 2·8	0	45	3	8	•	•	•	•	5	1·82	+ 0·90	•	•	•	•	
p Dumfries	49	9th	13	4th	41·1	29·9	35·5	- 3·1	0	46	3	11	32·7	•	38·1	•	5	1·42	+ 0·66	*1·8*	—	*20*	—	*Dumfries.*
p Cally, Gatehouse S	50	9th	15	4th	41·8	29·6	35·7	- 2·7	0	44	•	•	•	•	•	•	5	1·71	+ 0·71	•	•	•	•	
b I. OF MAN.																								
p Douglas	49	10th	25	5th	42·1	34·9	38·5	- 1·8	0	25	3	23	•	•	•	•	5	1·51	+ 0·71	1·1	- 1·1	12	-12	Douglas.
											3	4	33·0	-2·9	40·1	+0·1	—	—	—	*2·1*	—	*23*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											4	17	•	•	•	•	—	—	—	1·8	—	20	—	Hoylake.
p Aspatria	51	9th	14	4th	43·1	32·0	37·6	- 0·1	3	36	3	4	34·2	•	41·8	•	6	0·75	+ 0·15	3·2	—	36	—	Aspatria.
p Newton Rigg ..	48	9th	7	4th	38·7	27·7	33·2	- 3·4	0	62	5	2	34·2	-2·6	39·0	-0·4	5	0·65	- 0·09	2·1	+ 0·2	24	+ 2	Newton Rigg.
p Stonyhurst	53	9th	18	4th	41·1	31·7	36·4	- 1·6	0	39	4	12	•	•	•	•	4	0·57	- 0·26	1·4	- 0·4	16	- 4	Stonyhurst.
p Blackpool	51	9, 10	17	4, 5	41·0	31·9	36·5	- 2·2	0	39	5	7	•	•	•	•	5	0·77	+ 0·21	2·4	+ 0·5	27	+ 5	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	51	9th	21	4, 5	41·1	30·6	35·9	- 3·5	0	43	•	•	•	•	•	•	5	0·28	- 0·16	*2·1*	—	*23*	—	*Liverpool.*
a Hawarden Bridge ..	52	9, 10	18	4th	43·1	31·7	37·4	- 2·7	3	37	4	8	30·9	-4·8	37·8	-1·1	4	0·46	+ 0·10	*1·8*	- *0·2*	*20*	- *2*	*Southport.*
											3	16	33·3	-3·1	41·4	+0·2	—	—	—	*1·5*	—	*17*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	56	8th	21	4th	44·6	33·9	39·3	- 2·0	7	31	•	•	•	•	•	•	5	0·41	- 0·11	2·3	+ 0·1	25	+ 1	Llandudno.
a Holyhead	52	9th	23	5th	43·4	33·7	38·6	- 2·8	4	30	•	•	•	•	•	•	4	0·91	+ 0·29	2·2	—	24	—	Aberdovey.
p Bettws-y-Coed ..	52	9th	10	4th	42·9	29·7	36·3	- 4·1	3	44	3	10	35·1	-3·0	42·1	-0·1	6	0·81	—	1·2	—	13	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·0	—	22	—	Aberystwyth.
a Llangammarch Wells	52	9th	13	4th	42·9	29·3	36·1	− 1·9	3	45	4	9	35·0	−3·4	43·3	+0·3	6	1·07	—	1·2	—	13	—	Llangammarch
a Pembroke	49	7, 9, 10	24	4th	45·3	36·1	40·7	− 1·4	9	23							6	1·06	+ 0·40	0·9	− 1·5	10	−16	Pembroke.[Wells
p Cardiff	52	9th	20	4th	42·7	32·3	37·5	− 2·2	2	34	3	18	33·7	−4·9	41·5	−0·5	6	0·68	− 0·06	*1·4*	—	*15*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	56	9th	21	4, 5	45·4	32·4	38·9	− 1·1	10	36	4	19					6	0·57	− 0·01	*1·7*	—	*18*	—	*Clifton.*
a Shaftesbury	53	9th	18	4, 5	44·3	30·6	37·5	− 0·6	6	42			35·3				6	0·60	+ 0·02					Shaftesbury.
a Arlington	51	8th	19	4th	45·4	32·3	38·9	− 0·3	10	37			40·1				5	0·86	− 0·10	1·4	− 1·0	15	−11	Newquay.
a Cullompton	53	9th	19	4th	46·6	32·9	39·8	− 0·4	13	35	4	14	37·7				7	1·37	+ 0·69	0·9	− 1·2	10	−13	Cullompton.
a Portland	51	9th	27	4, 5	46·3	38·3	42·3	+ 0·8	18	10							6	0·46	—	*1·4*	—	*15*	—	*Weymouth.*
p Plymouth	53	8th	26	4th	46·1	37·6	41·9	− 0·1	11	19	4	19	39·1	−1·3			7	1·42	+ 0·74	1·1	− 1·2	12	−13	Plymouth.
p Falmouth	52	8th	32	4th	47·1	40·4	43·8	+ 0·7	19	4							7	1·34	+ 0·44	1·7	− 0·8	18	− 9	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	50	9th	24	5th	42·9	32·7	37·8	− 3·0	3	33							3	0·28	− 0·27					
a Blacksod Point ..	53	7th	26	4th	45·1	34·1	39·6	− 2·9	9	30							5	0·75	− 0·20					
p Markree Castle ..	53	9th	16	4th	42·7	32·0	37·4	− 2·4	2	36	3	11	37·3		42·6		4	0·65	− 0·12	2·1	+ 0·2	23	+ 2	Markree Castle.
a Birr Castle	52	8th	19	4th	45·9	32·9	39·4	− 0·6	11	35							5	0·54	− 0·01	*2·0*	*− 0·1*	*22*	*− 1*	*Birr Castle.*
b, East .. { *p* Armagh	49	8, 9, 10	22	4th	43·0	34·3	38·7	− 1·1	3	28	2	12	36·2	−3·5	41·0	−1·6	4	0·63	+ 0·10	1·4	− 0·6	16	− 6	Armagh.
a Donaghadee	50	10th	29	4, 5	44·0	35·3	39·7	− 0·8	6	25							4	0·90	+ 0·33					
											5	19	38·0	−2·4	41·9	−1·1	—	—	—					Trinity Coll.
10. IRELAND, S.											3	22					—	—	—	1·6	− 0·8	18	− 8	Phœnix Park.
a, East .. { *p* Dublin, City	51	7, 8	28	4th	44·7	37·4	41·1	− 1·0	8	18	2	24					5	1·17	+ 0·67					Dublin City.
a Kilkenny	51	9th	15	4th	46·1	32·1	39·1	− 1·5	11	38							5	1·13	+ 0·48					
a Waterford	51	7, 8, 9	18	4th	47·4	32·4	39·9	− 1·4	15	37							5	1·82	+ 0·96					
b, West .. { *a* Birr Castle	52	8th	19	4th	45·9	32·9	39·4	− 0·6	11	35							5	0·54	− 0·01	2·0	− 0·1	22	− 1	Birr Castle.
a Foynes	54	8th	21	4th	47·9	34·6	41·3	− 1·0	17	30							6	0·67	− 0·10					
a Cahir	50	7, 8, 9	23	4th	46·0	33·3	39·7	− 1·5	11	34							6	1·43	—					
a Killarney	52	7th	20	4th	47·4	35·8	41·6	− 0·9	15	25							6	1·41	+ 0·12					
a Valencia	52	7, 8	28	4th	48·0	38·9	43·5	− 0·8	24	9							6	1·42	+ 0·18	0·3	− 2·0	3	−22	Valencia.
a Roche's Point	49	7, 8, 9	25	4th	46·7	37·9	42·3	− 1·0	19	11							6	1·33	+ 0·37	0·2	—	2	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	6, 9	29	4th	50·6	41·1	45·9	+ 0·7	31	3							7	0·90	+ 0·23	1·6	− 1·1	17	−12	Scilly.
a Jersey, St. Aubins ..	53	8th	27	4th	47·7	38·1	42·9	+ 0·3	23	11							4	0·46	− 0·16	1·7	− 1·3	18	−13	St. Heliers.
a Guernsey (Villa Carey)	54	8th	29	4th	48·4	39·1	43·8	+ 0·4	25	8	2	15	41·5	−0·1	45·5	+0·6	5	0·72	+ 0·05	1·6	− 1·0	17	−11	Guernsey.*

Additional Sunshine Means :—*Bognor, 1·9 hrs. 20%; Newcastle (Pendower), 1·5 hrs. 17 %; Ramsgate, 1·7 hrs. 18 %; Rhyl, 2·6 hrs. 29 %; Salcombe, 1·2 hrs. 13 %; Tenby, 1·2 hrs. (−1·3) 13 % (−14 %); Torquay, 1·3 hrs. (−1·2) 14 % (−13 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, February 10th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	42	41	41·1	−1·1	SCOTLAND, W. ..	{ Lamlash	43	38	40·7	−3·1
	{ Kirkwall	41	40	40·9	+0·3		{ Ballantrae	45	37	40·8	−1·6
	{ Wick	—	—	—	—	ENGLAND, N.W. ..	Port Erin	45	39	42·8	+1·7
SCOTLAND, E. ..	{ Cromarty	38	35	36·2	−2·5	ENGLAND, S.W. ..	{ Newquay	46	45	45·3	−0·5
	{ Pennan Bay	42	38	39·0	−1·1		{ Scilly	47	45	45·6	—
	{ Aberdeen, Cove Bay	42	40	40·9	+1·3		{ Plymouth‡	47	43	44·5	−1·7
SCOTLAND, N.E. ..	{ Burnmouth, Berwick	39	37	37·3	−1·8		{ Salcombe	48	42	45·8	+0·8
	{ Scarborough	39	35	36·5	−3·6	IRELAND, N.W. ..	{ Sheephaven	44	41	42·7	−1·9
ENGLAND, E. ..	{ Shipwash Lightship	43	37	40·4	+1·3		{ Teelin	45	37	41·2	−2·7
ENGLAND, S.E. ..	{ Margate‡	42	38	39·2	0·0	IRELAND, S.W. ..	{ Cleggan	42	38	39·9	−4·0
	Eastbourne‡	42	35	38·7	−0·6		{ Seafield	45	37	41·4	−3·8
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **S** are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SIXTH WEEK—February 4th to February 10th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	53	7	41·5	29·5	35·5	− 1·7	0	− 6	46	+ 4	5	0	0·46	−0·78	1·7	+0·1	20	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	52	−5	40·1	26·4	33·3	− 3·6	0	− 8	61	+ 15	5	+ 1	0·57	+0·02	1·3	−1·1	15	−13
2. ENGLAND, N.E.	52	10	40·5	29·7	35·2	− 3·5	0	− 10	48	+ 14	5	+ 2	0·36	−0·02	1·7	−0·8	19	− 8
3. ENGLAND, EAST ...	52	16	42·8	32·7	37·8	− 0·6	2	− 9	33	− 5	5	+ 1	0·34	−0·03	2·1	−0·4	23	− 5
4. MIDLAND COUNTIES ...	56	9	42·1	28·7	35·4	− 3·2	0	− 12	47	+ 10	5	+ 1	0·60	+0·13	1·8	−0·4	20	− 4
5. ENGLAND, S.E.	53	15	45·0	34·0	39·5	− 0·5	8	− 6	30	+ 2	5	+ 2	0·70	+0·18	1·6	−0·6	17	− 7
Western.																		
6. SCOTLAND, WEST ...	52	12	41·6	30·8	36·2	− 2·4	0	− 10	41	+ 9	5	0	1·28	+0·30	0·6	−1·4	7	−16
7. ENGLAND, N.W.	56	7	42·1	31·4	36·8	− 2·8	0	− 11	38	+ 10	5	+ 1	0·62	0·00	2·1	+0·1	23	+ 1
8. ENGLAND, S.W.	56	13	45·2	34·2	39·7	− 1·5	9	− 7	30	+ 7	6	+ 2	0·94	+0·18	1·3	−1·0	14	−11
9. IRELAND, NORTH ...	53	16	43·9	33·6	38·8	− 1·6	5	− 9	31	+ 6	4	− 1	0·63	−0·08	1·8	−0·3	20	− 3
10. IRELAND, SOUTH ...	54	15	46·7	35·0	40·9	− 1·2	13	− 7	28	+ 9	6	+ 1	1·21	+0·41	1·0	−1·3	11	−14
11. ENGLISH CHANNEL ...	54	27	48·9	39·4	44·2	+ 0·2	26	+ 2	7	− 3	5	+ 1	0·69	+0·05	1·6	−1·2	17	−13

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 10 Weeks, December 3rd, 1911, to February 10th, 1912.

0. SCOTLAND, NORTH ...	57	7	*	*	*	*	77	+ 3	311	− 27	54	+ 1	9·96	−3·32	1·1	+0·3	16	+ 4
Eastern.																		
1. SCOTLAND, EAST ...	56	−5	*	*	*	*	48	− 27	400	− 3	51	+10	7·69	+1·60	1·3	−0·1	18	− 1
2. ENGLAND, N.E	55	10	*	*	*	*	72	− 14	327	+ 3	51	+15	6·82	+2·44	1·4	−0·1	18	− 1
3. ENGLAND, EAST ...	55	14	*	*	*	*	110	+ 17	252	−117	52§	+13§	7·02§	+2·95§	1·4	−0·3	18	− 4
4. MIDLAND COUNTIES ...	56	9	*	*	*	*	115	+ 9	321	− 49	49	+11	9·34	+4·29	1·4	0·0	18	0
5. ENGLAND, S.E.	54	13	*	*	*	*	163	+ 25	203	− 68	48	+10	10·23	+4·83	1·4	−0·2	17	− 2
Western.																		
6. SCOTLAND, WEST ...	55	12	*	*	*	*	91	− 19	275	+ 13	52	+ 5	13·34	+2·24	1·2	0·0	16	0
7. ENGLAND, N.W.	58	7	*	*	*	*	114	+ 4	255	− 6	50	+ 8	9·81	+2·75	1·5	+0·3	19	+ 4
8. ENGLAND, S.W.	57	9	*	*	*	*	196	+ 16	173	− 24	54	+10	13·74	+4·77	1·7	0·0	21	0
9. IRELAND, NORTH ...	58	15	*	*	*	*	152	+ 16	206	− 22	46	− 3	9·71	+1·68	1·6	+0·2	21	+ 3
10. IRELAND, SOUTH ...	57	13	*	*	*	*	204	− 10	171	− 0	55	+ 9	13·04	+3·65	1·6	−0·1	20	− 1
11. ENGLISH CHANNEL ...	57	27	*	*	*	*	348	+ 70	41	− 27	50	+ 2	10·55	+2·99	2·0	−0·1	24	− 1

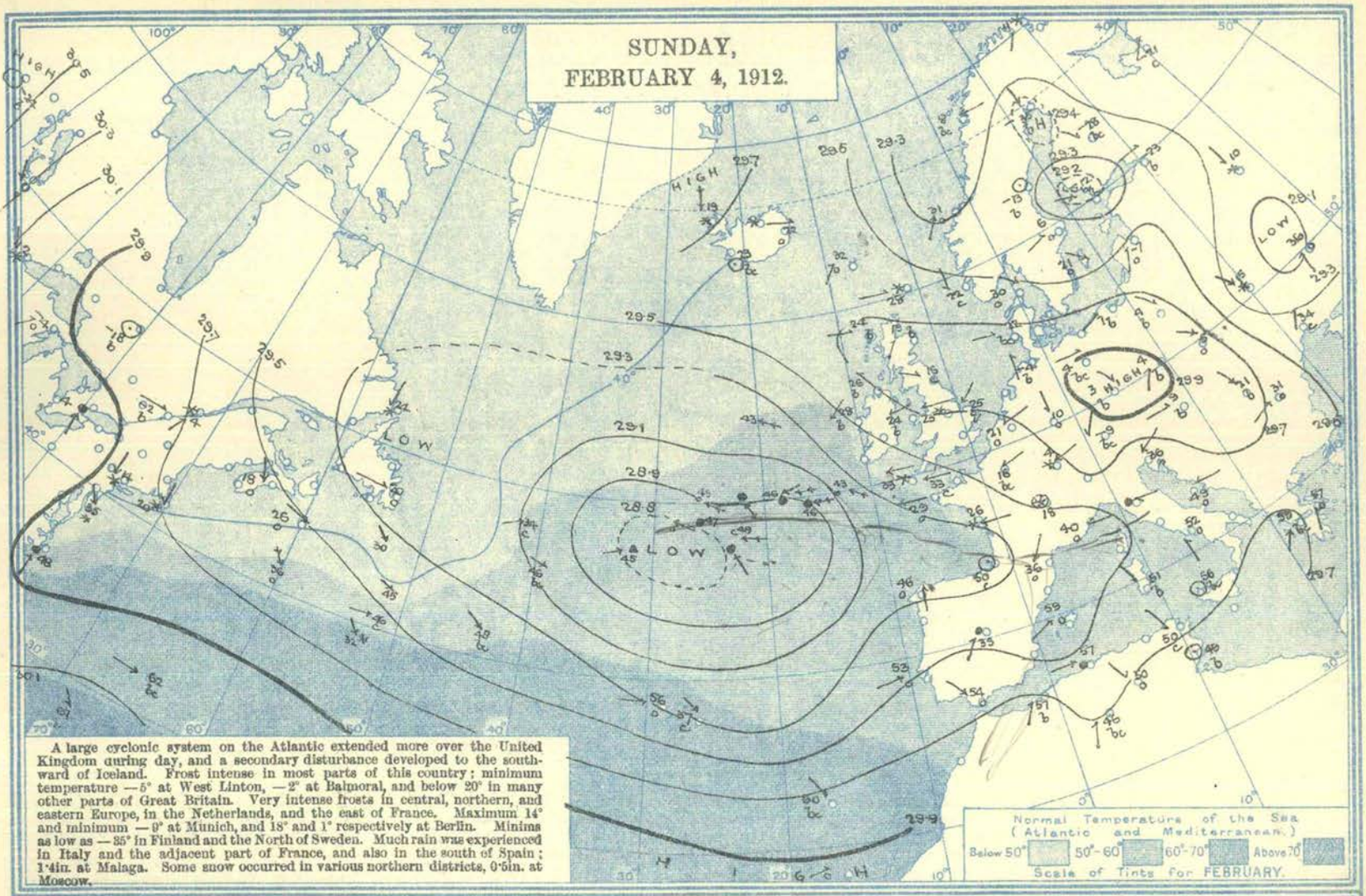
THE YEAR.—Aggregates, &c., for the Period of 6 Weeks, December 31st, 1911, to February 10th, 1912.

0. SCOTLAND, NORTH ...	57	7	*	*	*	*	24	− 16	243	+ 27	29	− 3	4·22	−3·76	1·4	+0·4	19	+ 6
Eastern.																		
1. SCOTLAND, EAST ...	56	−5	*	*	*	*	11	− 34	294	+ 47	29	+ 5	3·52	+0·07	1·4	−0·2	18	− 3
2. ENGLAND, N.E.	55	10	*	*	*	*	22	− 29	244	+ 45	28	+ 6	3·43	+1·07	1·3	−0·3	16	− 4
3. ENGLAND, EAST ...	53	14	*	*	*	*	31	− 23	197	− 29	28§	+ 5§	3·24§	+0·91§	1·4	−0·5	17	− 6
4. MIDLAND COUNTIES ...	56	9	*	*	*	*	30	− 34	256	+ 33	25	+ 2	4·49	+1·56	1·3	−0·3	16	− 4
5. ENGLAND, S.E.	53	13	*	*	*	*	55	− 20	167	− 3	24	+ 2	4·00	+0·91	1·3	−0·4	15	− 5
Western.																		
6. SCOTLAND, WEST ...	54	12	*	*	*	*	26	− 36	222	+ 56	25	− 3	5·89	−0·37	1·3	−0·1	17	− 1
7. ENGLAND, N.W.	56	7	*	*	*	*	34	− 27	214	+ 52	25	0	3·88	−0·17	1·7	+0·3	21	+ 4
8. ENGLAND, S.W.	56	9	*	*	*	*	78	− 22	155	+ 28	28	+ 2	5·56	+0·66	1·7	−0·1	20	− 1
9. IRELAND, NORTH ...	54	15	*	*	*	*	70	− 11	146	+ 5	21	− 8	3·96	−0·64	1·8	+0·3	23	+ 4
10. IRELAND, SOUTH ...	55	13	*	*	*	*	104	− 19	120	+ 15	28	+ 1	5·70	+0·43	1·7	−0·1	21	− 1
11. ENGLISH CHANNEL ...	54	27	*	*	*	*	170	+ 21	41	− 8	23	− 5	3·91	−0·15	2·0	−0·2	23	− 2

NOTES ON TABLE IV.

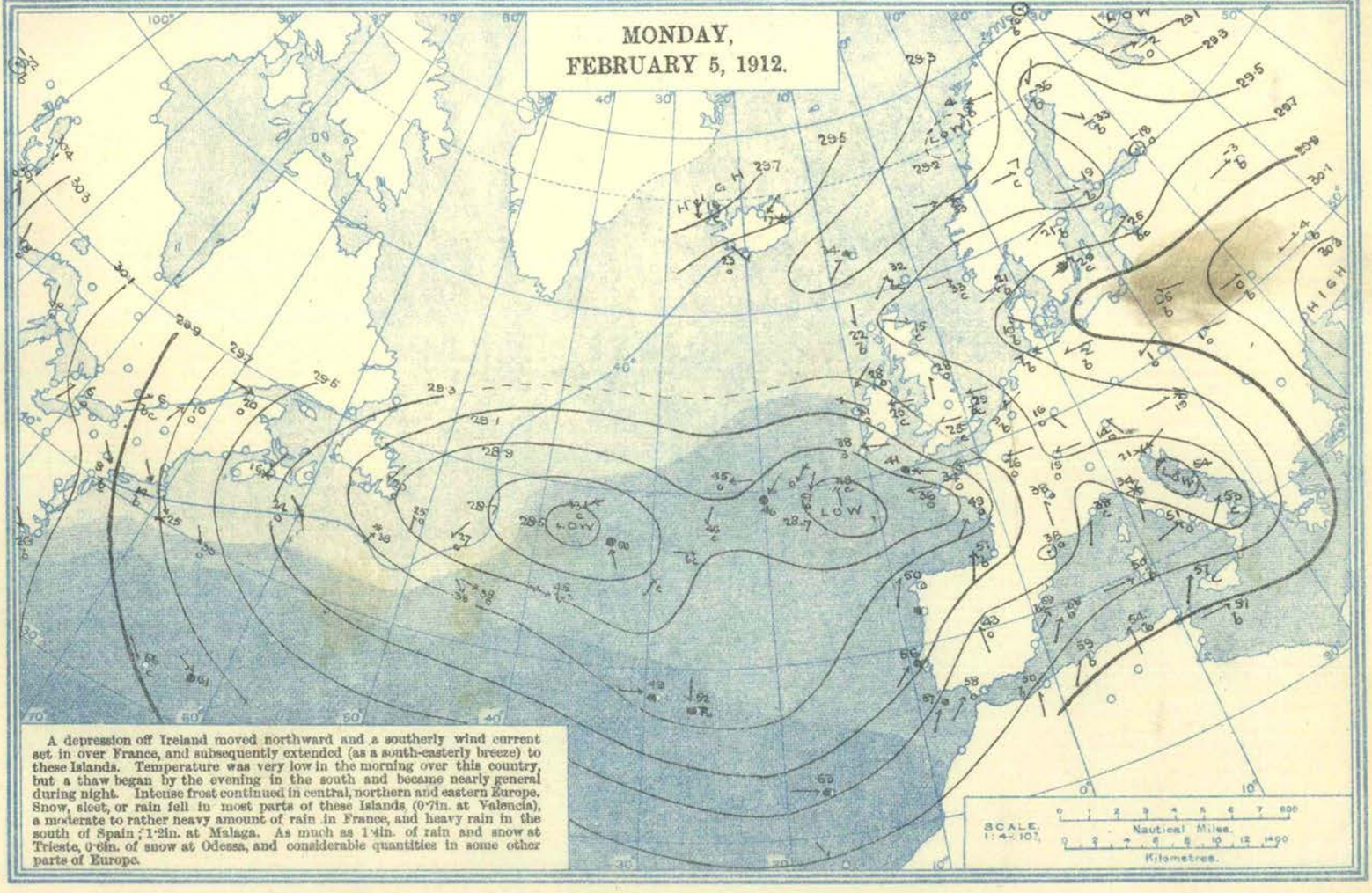
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding Value for Week ended February 3rd altered owing to further information.

SUNDAY, FEBRUARY 4, 1912.

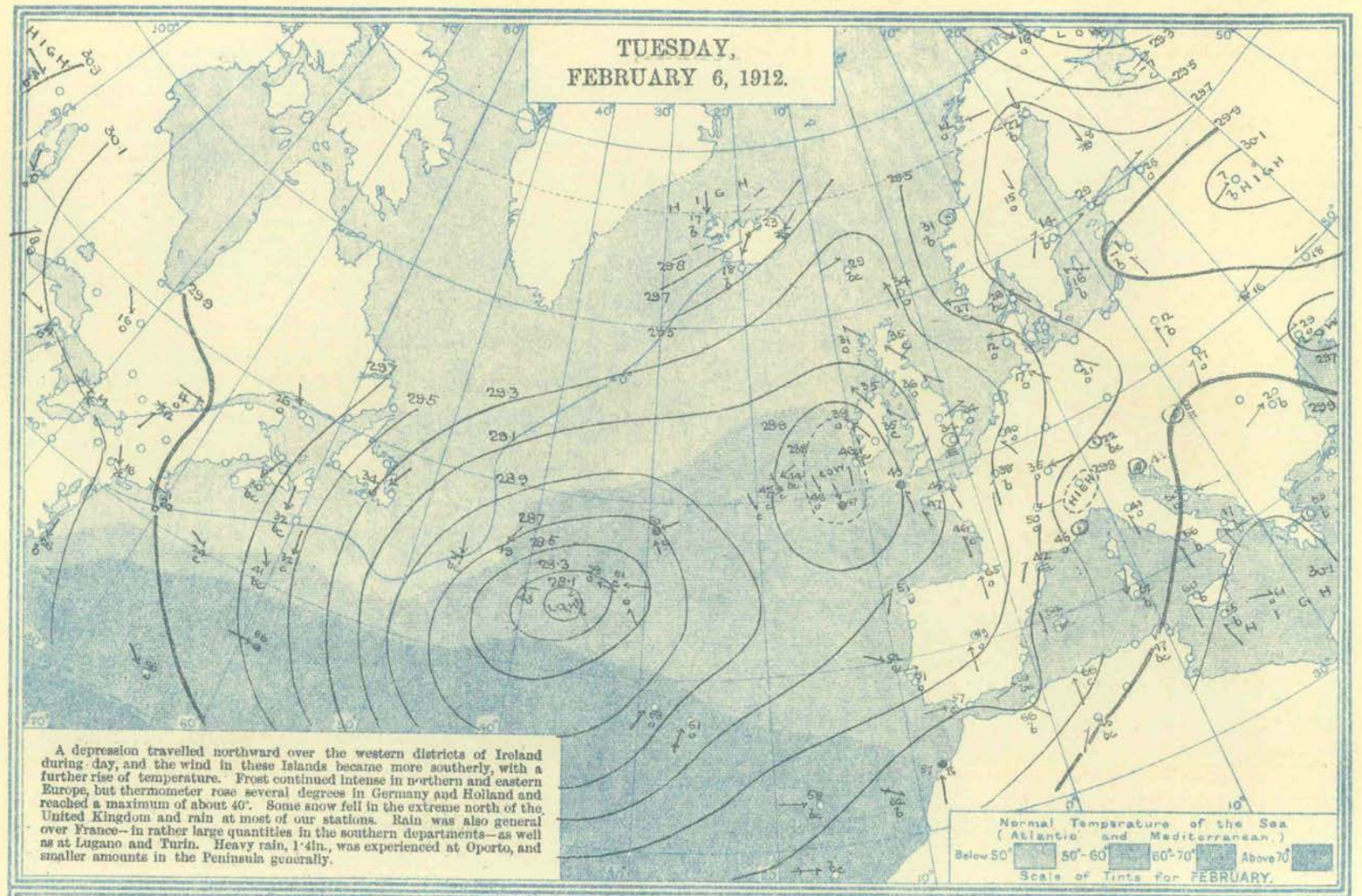


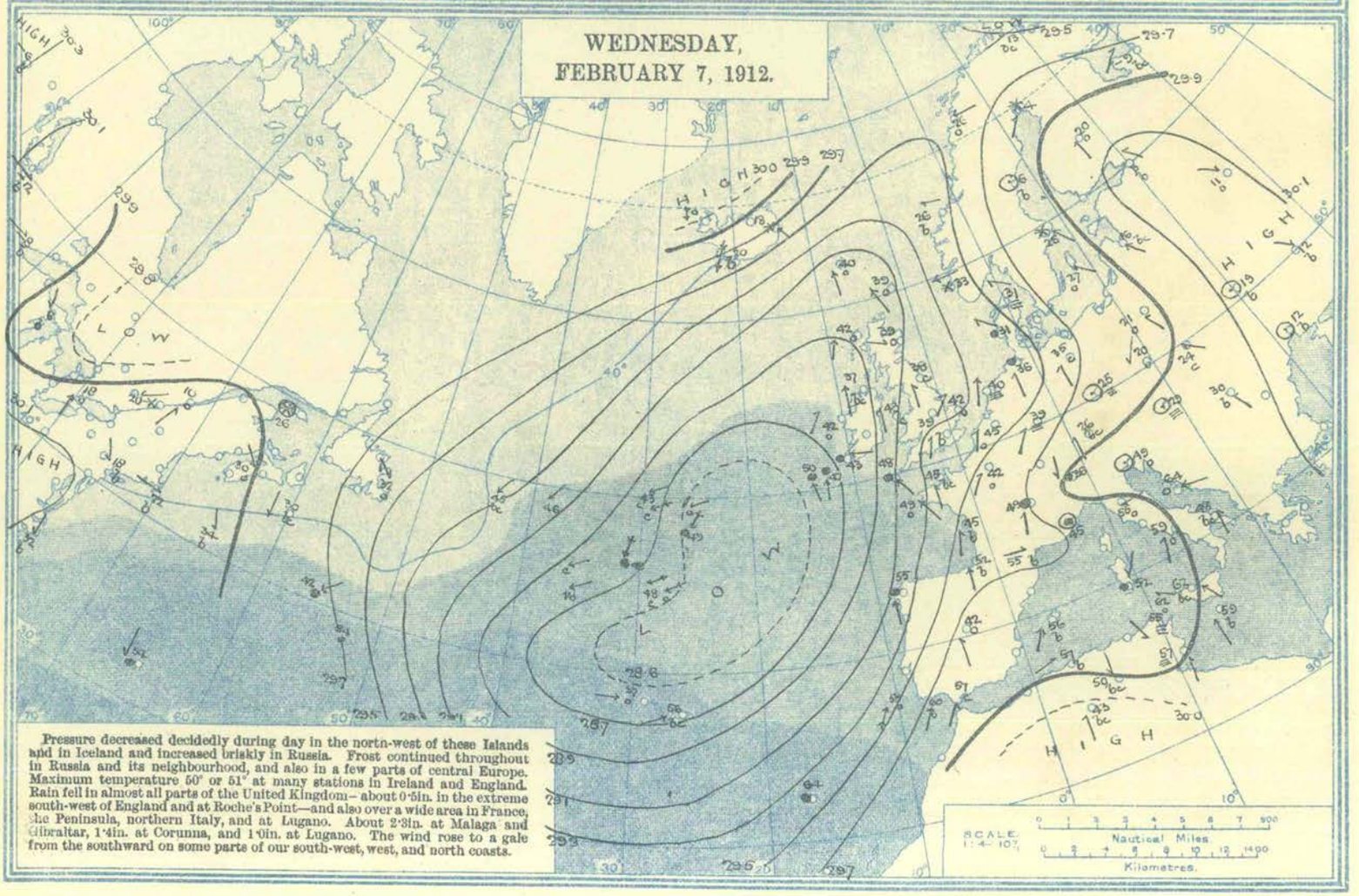
A large cyclonic system on the Atlantic extended more over the United Kingdom during day, and a secondary disturbance developed to the southward of Iceland. Frost intense in most parts of this country; minimum temperature —5° at West Linton, —2° at Balmoral, and below 20° in many other parts of Great Britain. Very intense frosts in central, northern, and eastern Europe, in the Netherlands, and the east of France. Maximum 14° and minimum —9° at Munich, and 18° and 1° respectively at Berlin. Minima as low as —35° in Finland and the North of Sweden. Much rain was experienced in Italy and the adjacent part of France, and also in the south of Spain; 1·4in. at Malaga. Some snow occurred in various northern districts, 0·5in. at Moscow.

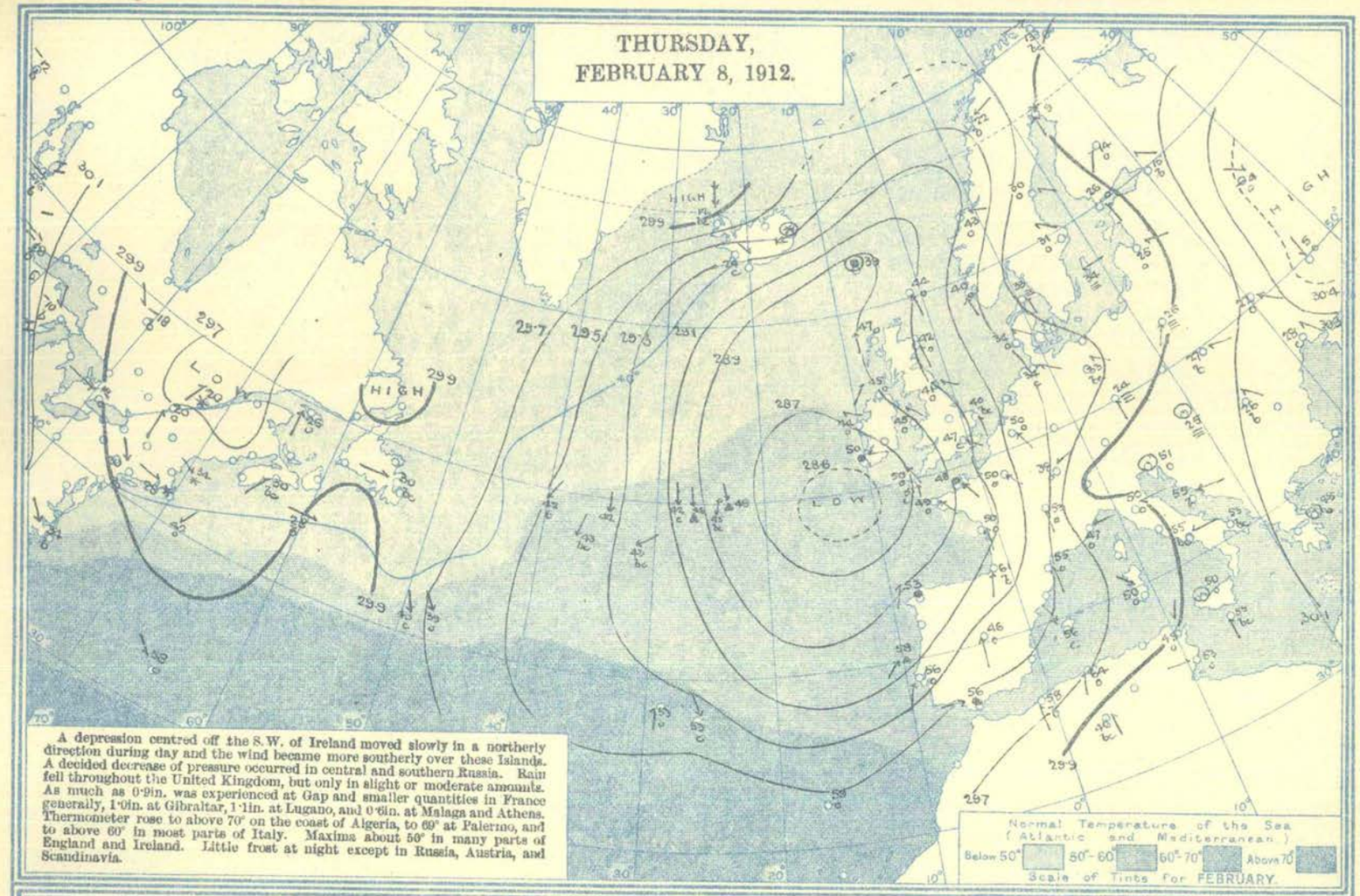
MONDAY, FEBRUARY 5, 1912.



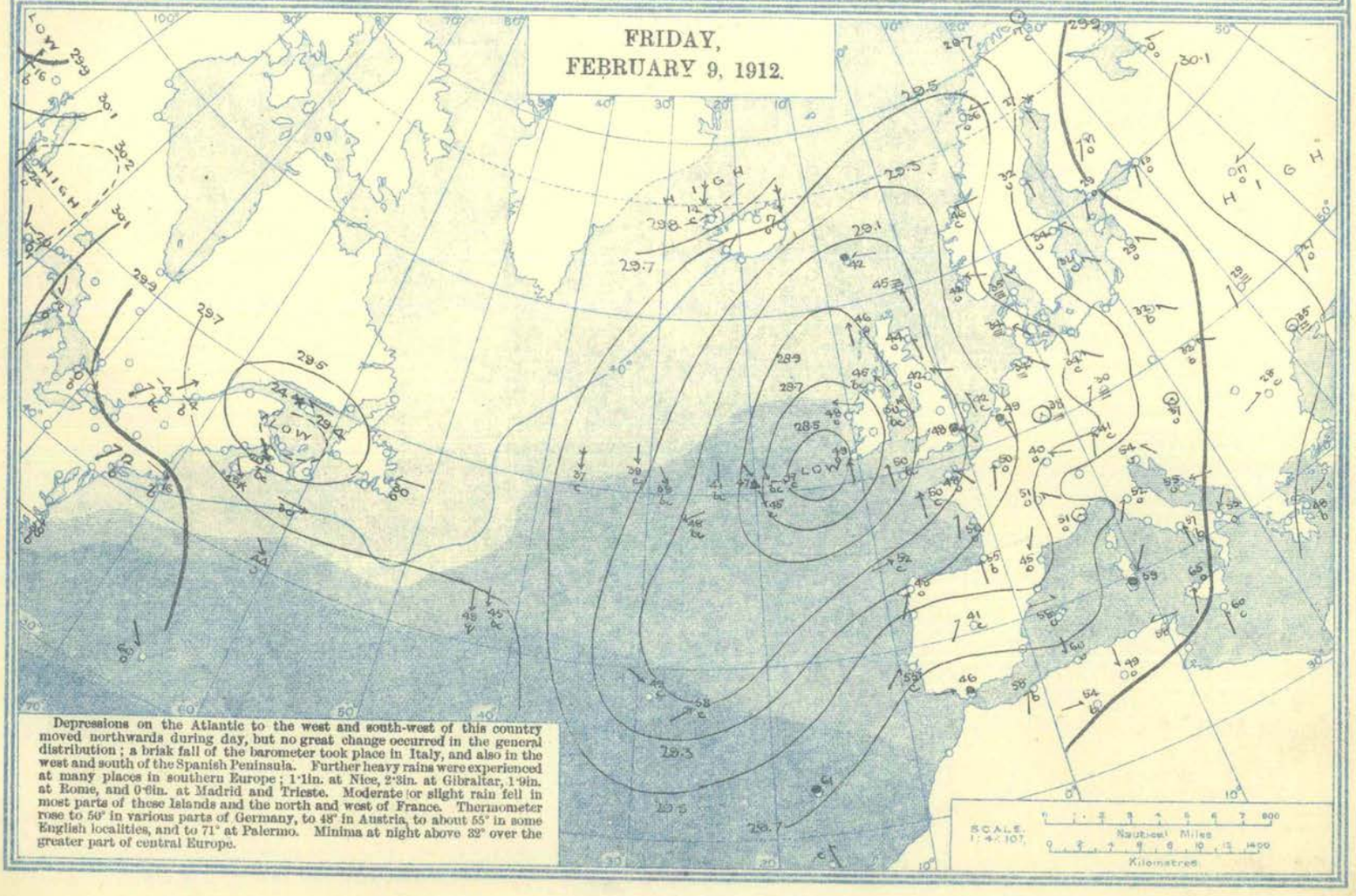
A depression off Ireland moved northward and a southerly wind current set in over France, and subsequently extended (as a south-easterly breeze) to these Islands. Temperature was very low in the morning over this country, but a thaw began by the evening in the south and became nearly general during night. Intense frost continued in central, northern and eastern Europe. Snow, sleet, or rain fell in most parts of these Islands (0·7in. at Valencia), a moderate to rather heavy amount of rain in France, and heavy rain in the south of Spain; 1·2in. at Malaga. As much as 1·4in. of rain and snow at Trieste, 0·6in. of snow at Odessa, and considerable quantities in some other parts of Europe.


TUESDAY,
FEBRUARY 6, 1912.
A depression travelled northward over the western districts of Ireland during day, and the wind in these Islands became more southerly, with a further rise of temperature. Frost continued intense in northern and eastern Europe, but thermometer rose several degrees in Germany and Holland and reached a maximum of about 40°. Some snow fell in the extreme north of the United Kingdom and rain at most of our stations. Rain was also general over France—in rather large quantities in the southern departments—as well as at Lugano and Turin. Heavy rain, 1·4in., was experienced at Oporto, and smaller amounts in the Peninsula generally.
Normal Temperature of the Sea (Atlantic and Mediterranean.)
Below 50°
50°-60°
60°-70°
Above 70°
Scale of Tints for FEBRUARY.

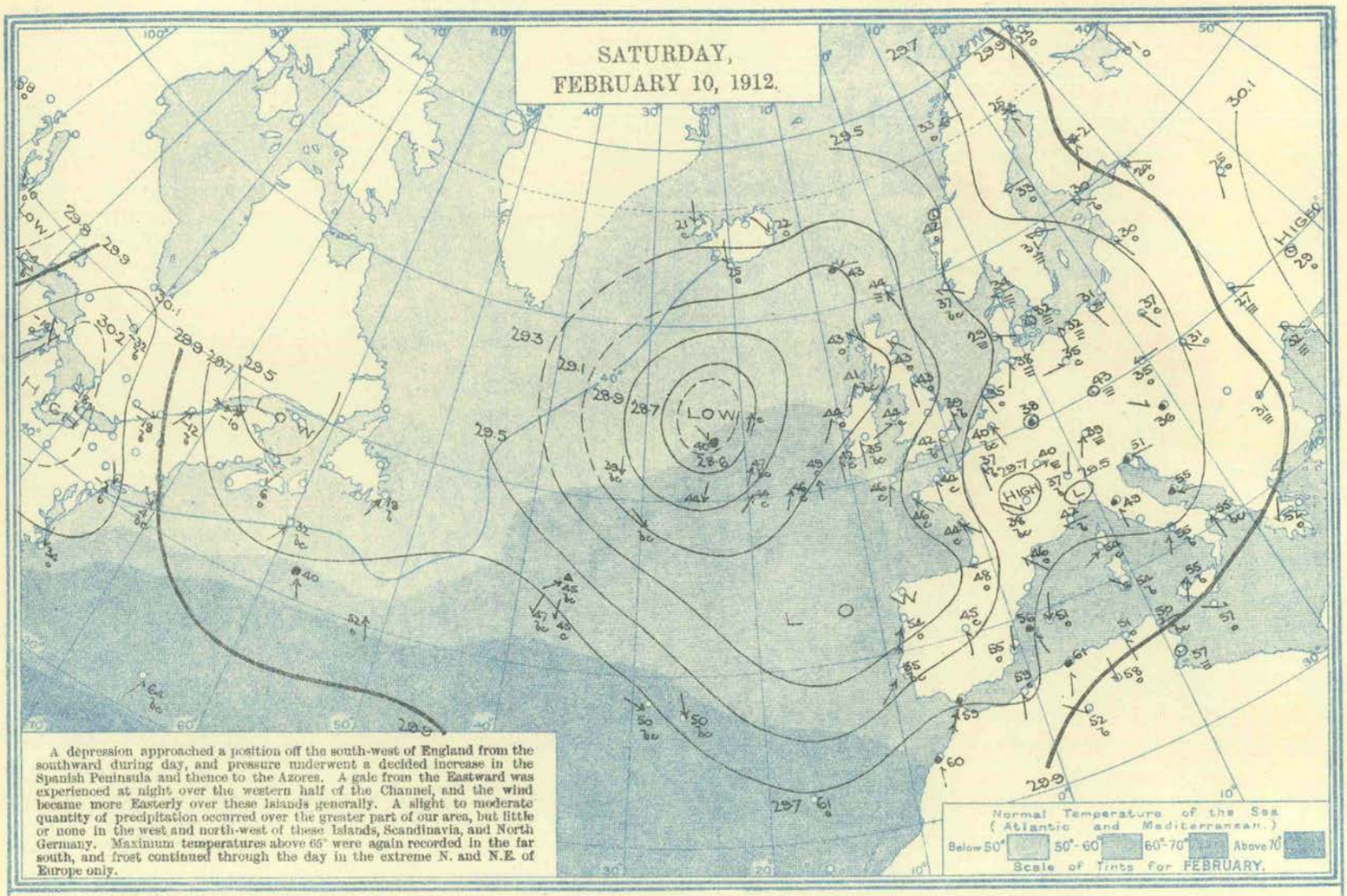

WEDNESDAY,
FEBRUARY 7, 1912.
Pressure decreased decidedly during day in the north-west of these Islands and in Iceland and increased briskly in Russia. Frost continued throughout in Russia and its neighbourhood, and also in a few parts of central Europe. Maximum temperature 50° or 51° at many stations in Ireland and England. Rain fell in almost all parts of the United Kingdom—about 0·5in. in the extreme south-west of England and at Roche's Point—and also over a wide area in France, the Peninsula, northern Italy, and at Lugano. About 2·3in. at Malaga and Gibraltar, 1·4in. at Corunna, and 1·0in. at Lugano. The wind rose to a gale from the southward on some parts of our south-west, west, and north coasts.
SCALE 1:4-10,000
Nautical Miles
Kilometres.



A depression centred off the S.W. of Ireland moved slowly in a northerly direction during day and the wind became more southerly over these Islands. A decided decrease of pressure occurred in central and southern Russia. Rain fell throughout the United Kingdom, but only in slight or moderate amounts. As much as 0·9in. was experienced at Gap and smaller quantities in France generally, 1·0in. at Gibraltar, 1·1in. at Lugano, and 0·6in. at Malaga and Athens. Thermometer rose to above 70° on the coast of Algeria, to 69° at Palermo, and to above 60° in most parts of Italy. Maxima about 50° in many parts of England and Ireland. Little frost at night except in Russia, Austria, and Scandinavia.

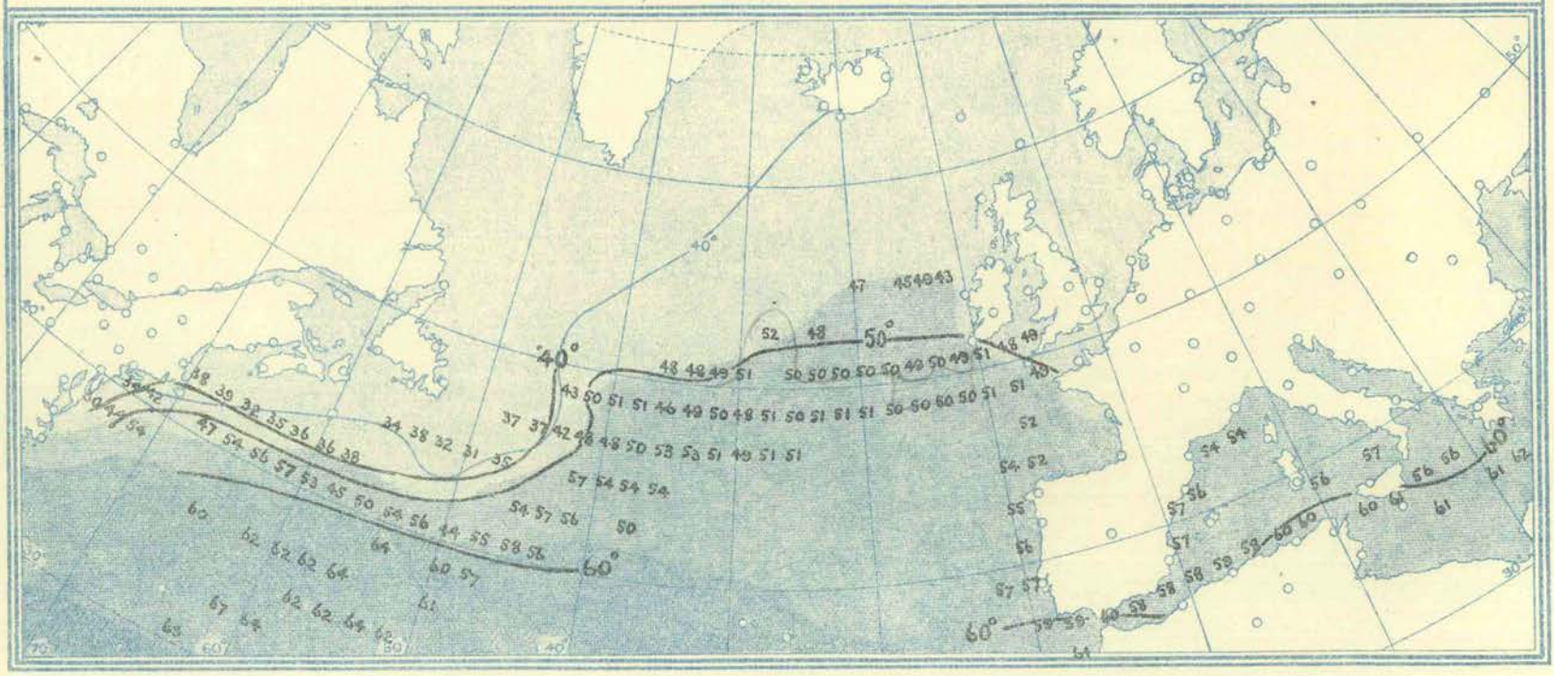


Depressions on the Atlantic to the west and south-west of this country moved northwards during day, but no great change occurred in the general distribution; a brisk fall of the barometer took place in Italy, and also in the west and south of the Spanish Peninsula. Further heavy rains were experienced at many places in southern Europe; 1·1in. at Nice, 2·3in. at Gibraltar, 1·9in. at Rome, and 0·6in. at Madrid and Trieste. Moderate or slight rain fell in most parts of these Islands and the north and west of France. Thermometer rose to 56° in various parts of Germany, to 48° in Austria, to about 55° in some English localities, and to 71° at Palermo. Minima at night above 32° over the greater part of central Europe.



A depression approached a position off the south-west of England from the southward during day, and pressure underwent a decided increase in the Spanish Peninsula and thence to the Azores. A gale from the Eastward was experienced at night over the western half of the Channel, and the wind became more Easterly over these Islands generally. A slight to moderate quantity of precipitation occurred over the greater part of our area, but little or none in the west and north-west of these Islands, Scandinavia, and North Germany. Maximum temperatures above 65° were again recorded in the far south, and frost continued through the day in the extreme N. and N.E. of Europe only.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 10TH FEBRUARY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; * = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* No. 7. SEVENTH WEEK, SUNDAY, FEBRUARY 11TH, TO SATURDAY, FEBRUARY 17TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. As a general rule the sky was either very cloudy or entirely overcast, while on several days small or moderate amounts of rain were experienced. Fog and mist were common on the east coast of England towards the end of the week.

Temperature was above the normal in all districts, the excess amounting to more than 5° in England East and South-East. The highest of the maxima were recorded at most stations either on the 16th or 17th, and ranged from 57° in England East and North-West and Ireland South to 52° in Scotland West. The lowest of the minima, which were recorded generally in the earlier half of the week except in central and South-Eastern England, varied from 25° in Scotland East and 28° in England North-East and Ireland South to 35° in England East, and to 38° in the English Channel. The lowest grass readings reported were 18° at Dublin, and 19° at Aspatria. At a depth of one foot the earth temperature was rather above the average except at some stations in the North and North-West of England and at Oxford and Marchmont; at a depth of four feet it was a little below in all districts excepting England East and South-East.

Mean Temperature of the Sea. On the east and south-east coasts of England the temperature of the water was above the average and higher than during the corresponding week of last year. On the coast generally the values differed rather irregularly both from the normal and from the corresponding values of last year.

Rainfall was less than the average in all districts except England North-East, South-East and the Midland Counties; in Scotland North and Ireland North the deficit was very considerable.

Bright Sunshine was slightly above the average in Scotland North, but below it elsewhere. The percentage of the possible duration ranged from 27 in the English Channel, and 24 in Scotland North, to 4 in the Midland Counties, and 2 in England North-East. At some stations in the north-east and north of England the week was sunless.

Barometer and Wind. During the earlier days of the week a depression of moderate and decreasing intensity travelled very slowly east-north-eastward over the southern districts of England. The wind was mainly between South-East and East until Monday evening, when it shifted to North-East or North except in the south-east of England. During the later days of the week, when the depression had moved away to Central Europe, a large low pressure system on the Atlantic extended gradually over these islands, and the main wind current again became Southerly to South-Easterly. As a rule it had little force, but a gale was experienced on some parts of our extreme north-west coasts on Friday.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 27.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Unusual	Moderate	Unusual
	Rainfall ...	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Moderate
	Sunshine ...	Moderate	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 11 weeks from Dec. 3rd, 1911.	Warmth ...	2 * 2	2 * 3	3 * 3	4 * 1	4 * 3	4 * 2	3 * 4	4 * 3	4 * 1	5 * 3	3 * 4	7 * 1
	Rainfall ...	2 * 5	5 * 0	5 * 0	7 * 0	7 * 1	8 * 1	7 * 2	6 * 2	5 * 1	5 * 3	6 * 2	7 * 1
	Sunshine ...	4 * 1	3 * 4	2 * 3	3 * 7	3 * 5	2 * 8	3 * 5	4 * 3	2 * 5	5 * 3	2 * 4	2 * 4

PAST SEASONS.

WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

(23095—24.) Wt. 113—4. 450. 2/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	49	17th	34	12th	44·3	38·7	41·5	—	6	13														*Baltasound.*
a Lerwick	49	17th	36	14th	44·7	38·3	41·5	+ 3·5	8	15			39·3				7	0·29	—	1·6	—	19	—	Deerness.
a, Islands .. *a* Stornoway	51	16th	30	11th	46·6	34·6	40·6	+ 1·7	13	29							5	0·48	—	—	—	—	—	Stornoway.
a Castlebay, Barra Isd.	49	16th	38	12th	46·6	40·6	43·6	+ 2·2	17	4							3	0·49	- 0·55	3·0	+ 0·9	33	+10	*Castlebay.*
																	4	0·30	—	3·9	—	43	—	
a Wick	48	17th	39	11, 13, 16	44·0	39·3	41·7	+ 4·2	6	11							3	0·04	- 0·51					
b, Main- *p* Strathpeffer	53	17th	30	12, 15	44·3	33·4	38·9	+ 1·7	6	32							2	0·10	- 0·56	1·8	- 0·3	20	- 4	Strathpeffer.
land. *p* Glencarron	53	16th	29	15th	46·0	33·4	39·7	+ 3·2	11	33							3	0·35	- 1·44					
p Fort Augustus..	51	16, 17	30	13th	46·3	35·1	40·7	+ 2·7	12	27							3	0·08	- 0·94	1·8	+ 0·4	20	+ 4	Fort Augustus.
p Fort William ..	52	16th	29	11th	47·9	34·0	41·0	+ 1·9	17	32							3	0·52	- 1·28					
1. SCOTLAND, E.																								
p Gordon Castle.. S	54	17th	34	11th	47·3	36·7	42·0	+ 3·7	15	15	1	25	36·5	+1·2	37·2	0·0	—	—	—	0·3	—	3	—	Crathes S.
a Nairn	51	16th	28	12, 15	44·6	31·0	37·8	+ 0·4	7	40							3	0·08	- 0·44	2·6	—	29	—	*Gordon Castle.*
a Aberdeen ..	51	17th	34	12, 16	43·9	37·3	40·6	+ 2·7	5	18							4	0·11	- 0·34	2·5	—	28	—	Nairn.
a Balmoral ..	52	17th	30	11, 15	46·3	33·9	40·1	+ 6·1	12	31	3	27			39·2	+0·5	4	0·19	- 0·34	0·6	- 1·9	7	-21	Aberdeen.
p Crieff	50	17th	28	11th	42·3	33·4	37·9	0·0	1	31							4	0·20	- 0·46					Balmoral.
a Leith	54	16th	30	11th	46·3	33·9	40·1	+ 0·9	12	31							5	0·52	- 0·31	0·5	—	6	—	Balruddery.
p West Linton ..	50	16, 17	25	11th	43·3	32·6	38·0	+ 1·5	4	34							4	0·45	+ 0·08					
p Marchmont ..	49	17th	30	15th	42·7	35·1	38·9	+ 1·9	2	25	4	25	32·9	-2·8			4	0·37	—	1·3	—	14	—	*West Linton.*
																	5	0·46	- 0·06	0·5	- 1·8	5	-19	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	53	17th	28	11th	46·3	35·9	41·1	+ 3·0	12	24	3	25	37·5	+1·1	38·0	-0·4	4	0·83	+ 0·35	0·6	—	7	—	Cockle Park.
a Shields	52	17th	34	11th	45·1	36·6	40·9	+ 2·0	9	21							5	0·55	+ 0·20	0·3	- 1·4	3	-15	*Newcastle.*
p Durham	50	17th	30	11th	43·6	36·7	40·2	+ 2·7	4	20	1	25					5	0·49	+ 0·15	0·0	- 2·3	0	-25	Durham.
a, North .. *p* Rounton	50	17th	33	11th	45·1	38·1	41·6	+ 4·3	9	16	2	25	37·0				5	0·14	- 0·24					Rounton.
a West Witton	51	17th	31	11th	44·4	36·1	40·3	—	7	23	1	27	34·5		37·6		6	0·65	—					*West Witton.*
p Scarborough	51	17th	37	15th	44·6	39·4	42·0	+ 2·8	7	7							6	0·13	- 0·31	0·0	—	0	—	Scarborough.
p York	51	17th	35	11th	45·9	39·0	42·5	+ 4·0	16	8			36·8	-0·8	40·0	-0·1	5	0·25	- 0·14	0·0	- 2·0	0	-21	York.
a Spurn Head	48	17th	35	15th	42·7	36·9	39·8	+ 0·9	2	18	0	31	39·3	+2·0	41·0	+0·2	3	0·17	- 0·13	0·0	—	0	—	*Hull.*
b, South .. *a* Lincoln	52	16, 17	35	12th	47·0	38·0	42·5	+ 4·1	20	11			37·0	+0·6	38·7	-0·5	4	0·29	- 0·07					Lincoln.
a Fulbeck	52	17th	35	12th	46·9	37·9	42·4	+ 3·8	20	11	2	26	39·2	+0·7	41·0	-0·6	4	0·44	+ 0·07	0·2	—	2	—	Rauceby.
																	—	—	—	0·1	—	1	—	Skegness.
3. ENGLAND, E.											0	33	40·3	+1·9	41·4	+0·8	—	—	—	1·2	—	13	—	*Lowestoft.*
p Cromer	55	17th	36	15th	46·7	39·0	42·9	+ 5·6	19	8							5	0·44	—	0·4	—	4	—	Cromer.
p Hillington	54	17th	35	12th	47·3	39·7	43·5	+ 5·5	20	6	2	27					3	0·22	- 0·20	0·3	- 2·2	3	-23	Hillington.
a, North .. *a* Yarmouth	47	16, 17	37	11, 12, 15	44·3	38·0	41·2	+ 3·3	6	16			39·7	+2·0	42·0	+0·9	2	0·13	- 0·21	1·1	—	12	—	Yarmouth
a Norwich	54	17th	36	12th	47·4	39·1	43·3	+ 5·3	21	8	1	29	38·5				5	0·21	—	0·4	—	4	—	*Norwich.*
p Geldeston	56	17th	37	15th	48·6	39·9	44·3	+ 5·7	25	6							—	—	—	0·9	- 1·7	9	-18	Geldeston.
p Cambridge	55	17th	38	11, 15	48·9	40·4	44·7	+ 6·0	26	4	1	30	40·4	+2·0	41·2	+0·3	3	0·17	- 0·17	0·8	- 1·8	8	-19	Cambridge.
a Felixstowe	47	17th	38	11, 15	44·6	39·3	42·0	+ 3·3	7	8							4	0·08	—	1·8	—	19	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	48	11, 17	38	15, 16	45·0	39·9	42·5	+ 3·8	12	6	0	33	41·9	+2·6	43·7	+1·0	3	0·14	—	1·5	—	16	—	Clacton.
a Rothamsted	55	17th	37	15th	48·6	39·0	43·8	+ 5·8	25	8							4	0·58	+ 0·14	1·1	- 1·3	11	-13	Rothamsted.
a Shoeburyness	50	11, 17	37	15th	47·1	39·7	43·4	+ 4·2	19	6	0	33	42·1	+2·9			3	0·21	- 0·07	1·2	—	12	—	*Southend.*
p Tottenham	57	17th	40	15th	49·7	42·7	46·2	+ 6·8	29	0	0	36			42·5	+0·3	2	0·41	—	0·3	—	3	—	Tottenham.
4. MIDLAND COUNTIES.											1	28	34·4	-2·3	39·4	-0·2	—	—	—	0·5	—	5	—	*Huddersfield.*
a Harrogate	49	17th	32	11th	43·0	37·1	40·1	+ 2·8	3	18	1	28	36·8	-0·8	38·2	-0·8	5	0·30	- 0·23	0·2	—	2	—	Harrogate.
a Bawtry	51	17th	32	11, 12	45·4	36·7	41·1	+ 2·5	10	21	3	23	37·6		38·6		4	0·31	- 0·06	0·1	- 1·9	1	-20	Worksop.
p Buxton	48	16, 17	33	11th	43·6	36·3	40·0	+ 4·2	4	21	3	26	34·7	-1·8	40·3	-0·1	4	0·43	- 0·52	0·2	—	2	—	*Buxton.*
a, East .. *a* Nottingham	52	16th	36	12, 13, 15	46·9	37·7	42·3	+ 3·8	20	12	0	33	38·0	+1·2	37·3	-1·0	5	0·51	+ 0·11	0·1	—	1	—	Nottingham.
p Birmingham, Edgbsn.	51	16th	35	15th	46·0	39·1	42·6	+ 4·3	16	8	1	30	40·4	+1·1	42·7	-0·2	5	0·51	+ 0·09	0·2	—	2	—	Birmingham.
a Raunds	56	17th	36	12, 15	48·7	38·6	43·7	+ 5·3	26	10	0	31	38·4		42·3		4	0·35	—					Raunds.
a Oxford	56	17th	39	11, 15, 16	49·1	40·6	44·9	+ 5·5	26	4	0	31					4	0·67	+ 0·27	1·4	- 0·9	14	-10	Oxford.
a Cheadle	49	16th	34	15th	44·1	37·2	40·7	+ 3·3	6	19	1	30	36·6	-0·4	39·4	-0·5	—	—	—	0·0	—	0	—	Sheffield.
p Shrewsbury	52	16th	34	15th	47·1	38·1	42·6	+ 3·1	21	11	4	25					4	0·44	- 0·06					Cheadle.
b, West .. *a* Hereford											2	30					3	0·43	—					Shrewsbury.
a Cirencester																	—	—	—					Hereford.
a Bath	53	17th	31	15th	50·4	37·7	44·1	+ 6·1	33	12	1	29	39·7		41·0		5	0·47	- 0·03	0·5	- 2·0	5	-21	Cirencester.
	56	17th	33	15th	50·3	40·1	45·2	+ 5·0	30	5			40·8	+1·2	41·5	-1·5	4	0·47	- 0·04	0·8	—	8	—	Bath.
5. ENGLAND, S.E.											1	30	42·2	+3·4	43·5	+0·9	—	—	—					
p Kew	56	17th	40	15th	49·9	42·3	46·1	+ 6·6	29	0	1	30	41·7	+3·6	42·7	+0·8	3	0·31	- 0·07	1·2	- 0·8	12	- 8	Kew.
a Marlborough	54	17th	30	15th	47·9	38·9	43·4	+ 5·1	23	9	1	25					4	0·68	+ 0·12	0·8	- 1·3	8	-13	Marlborough.
a Margate	53	11, 17	38	15th	48·7	41·4	45·1	+ 5·4	24	2	—	—	42·3	+3·3	42·7	+1·8	4	0·28	- 0·08	1·4	- 1·1	14	-11	Margate.
a Wisley, Surrey ..	52	17th	37	15th	48·6	40·6	44·6	+ 4·8	24	4	3	27	41·9	+3·6	42·2	+1·0	3	0·28	—	1·4	—	14	—	Wisley.
a Swarraton	55	17th	36	15th	48·3	39·7	44·0	+ 5·5	24	6	0	33	43·3	+4·0	44·0	+1·5	5	0·68	+ 0·13	2·6	—	27	—	Worthing.
a Tunbridge Wells ..	54	17th	36	15th	47·9	39·2	43·6	+ 5·0	23	8	1	30	41·5	+4·1			4	0·59	+ 0·05	1·5	- 0·8	16	- 9	Tunbridge Wells.
a Dungeness	50	11, 17	39	15, 16	47·6	42·3	45·0	+ 5·4	21	0	0						3	0·38	0·00	1·6	—	17	—	Littlestone.
p Hastings.. ..	50	11, 17	38	15th	47·7	42·4	45·1	+ 5·2	22	0	0	35	42·7		43·2		5	0·47	- 0·03	1·9	- 0·9	20	-10	*Hastings.*
p Southampton	55	17th	40	15th	49·9	42·1	46·0	+ 4·9	28	0	0	32					4	0·47	- 0·05	1·9	- 0·7	20	- 8	Southampton.
a Ventnor	52	17th	40	15th	48·7	42·3	45·5	+ 3·7	25	0							5	0·61	+ 0·10	2·1	- 0·7	22	- 7	Ventnor.
											0	33	43·5	+3·4	44·2	+1·0	—	—	—	2·0	—	21	—	*Portsmouth.*
													43·4		44·3		—	—	—	1·8	- 0·8	19	- 9	Eastbourne.
													41·8		42·0		—	—	—	2·3	—	24	—	*Bournemouth.*
LONDON.											0	34			42·2		—	—	—	2·4	- 0·3	25	- 3	*Brighton.*
a Westminster	57	17th	41	11, 15	50·4	42·7	46·6	+ 7·1	32	0	0	36					4	0·43	+ 0·04	0·7	- 0·5	7	- 5	*Westminster.*
a Greenwich	58	17th	38	15th	50·3	40·7	45·5	+ 6·1	30	4	0	34					4	0·41	+ 0·04	1·1	- 0·9	11	- 9	*Greenwich.*
a Hampstead	55	17th	38	15, 16	47·7	40·0	43·9	—	22	6	1	30					4	0·40	—	0·6	—	6	—	*Hampstead.*
a Camden Square ..	57	17th	40	11, 12, 15	50·3	41·6	46·0	—	30	1	0	35					4	0·45	—	0·6	—	6	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	48	17th	31	11, 13	45·3	34·0	39·7	+ 0·9	9	31							3	0·60	- 0·29					
p Glasgow	51	17th	31	11th	44·9	37·9	41·4	+ 2·8	8	16	1	27					2	0·48	- 0·19	0·5	- 1·9	5	-11	Glasgow.
p Rothesay	51	17th	33	11th	45·4	37·9	41·7	+ 2·1	10	17					39·8	-2·0	3	0·67	- 0·21					
a Kilmarnock ..	52	17th	30	11th	46·3	35·7	41·0	+ 2·2	12	25							1	0·49	—	1·6	—	17	—	*Kilmarnock.*
a Colmonell ..	52	17th	32	11th	48·0	36·7	42·4	+ 4·0	25	15	1	29					3	0·41	- 0·48					
p Dumfries	51	16th	31	11th	46·6	37·3	42·0	+ 3·2	13	13	3	26	35·6		38·1		2	0·19	- 0·57	1·4	—	15	—	*Dumfries.*
p Cally, Gatehouse	50	17th	34	11, 15	47·4	38·0	42·7	+ 4·2	22	11							3	0·54	- 0·46					
b I. OF MAN.																								
p Douglas	49	16th	37	11th	45·7	39·6	42·7	+ 2·4	15	7	0	32					4	0·61	- 0·19	1·5	- 0·9	16	-10	Douglas.
7. *a*, ENGLAND, N.W.											1	27	36·7	0·0	39·3	-0·5	—	—	—	0·3	—	3	—	*Burnley.*
p Aspatria	54	16th	31	14th	47·6	36·3	42·0	+ 4·3	16	16	3	29					—	—	—	0·7	—	7	—	Hoylake.
p Newton Rigg	51	16, 17	30	11th	46·1	36·0	41·1	+ 4·5	11	24	5	19	37·1		41·0		4	0·16	- 0·41	2·6	—	28	—	Aspatria.
p Stonyhurst	50	16, 17	35	11th	45·9	39·3	42·6	+ 4·4	16	8	6	21	37·1	-0·4	38·7	-0·6	5	0·14	- 0·59	0·8	- 1·3	9	-14	Newton Rigg.
p Blackpool	51	17th	30	14th	46·7	37·0	41·9	+ 2·9	13	21	0	31					4	0·51	- 0·29	0·1	- 1·9	1	-20	Stonyhurst.
p Manchester, Prestwich																	4	0·57	+ 0·02	0·3	- 1·9	3	-20	Blackpool.
a Liverpool (Bidston) ..	51	16, 17	36	14, 15	45·9	37·9	41·9	+ 2·6	11	17							—	—	—					*Prestwich.*
a Hawarden Bridge ..	55	16th	37	14, 15	47·4	39·3	43·4	+ 3·2	21	8	3	22	36·1	-0·9	37·6	-1·5	4	0·52	+ 0·09	0·6	—	6	—	*Liverpool.*
											0	32	37·4	0·0	40·7	-0·3	4	0·44	+ 0·08	0·5	- 1·8	5	-19	*Southport.*
b, NORTH WALES.																	—	—	—	0·0	—	0	—	*Manchester (City).*
p Llandudno	57	16th	35	14th	48·1	39·1	43·6	+ 2·2	23	8							5	0·41	- 0·09	1·4	- 1·0	15	-11	Llandudno.
a Holyhead	53	16th	37	14, 15	47·4	40·0	43·7	+ 2·3	20	8							3	0·62	+ 0·04	2·1	—	22	—	Aberdovey.
p Bettws-y-Coed ..																								Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	55	16th	32	14th	48·4	38·0	43·2	+ 5·2	25	11	4	27	39·7	+0·7	42·1	-0·6	6	0·53	—	2·0	—	21	—	Aberystwyth.
a Pembroke	50	11, 16	36	15th	48·7	41·3	45·0	+ 3·0	24	2	*	*	*	*	*	*	5	0·48	- 0·16	1·3	—	14	—	Llangammarch
p Cardiff	52	16th	36	15th	47·6	39·6	43·6	+ 3·8	21	7	1	29	38·9	-0·6	40·9	-1·1	6	0·76	+ 0·03	1·7	—	11	—	Pembroke.[Wells
																								Cardiff.
b, ENGLAND, S.W.																								
a Clifton	54	16, 17	37	15th	49·4	40·9	45·2	+ 5·1	27	3	0	31	*	*	*	*	3	0·51	- 0·06	0·8	—	8	—	*Clifton.*
a Shaftesbury	52	17th	36	13, 14, 15	46·4	38·0	42·2	+ 3·8	18	11	*	*	40·8	*	*	*	4	0·69	+ 0·12	*	*	*	*	Shaftesbury.
a Arlington	55	16th	34	14th	48·3	39·0	43·7	+ 4·4	25	8	*	*	44·3	*	*	*	4	0·44	- 0·49	1·6	- 1·2	17	-12	Newquay.
a Cullompton	53	17th	31	14th	49·4	39·0	44·2	+ 3·8	28	8	2	29	42·6	*	*	*	6	0·75	+ 0·08	1·2	- 1·2	12	-13	Cullo npton.
a Portland	49	16, 17	39	15th	47·7	42·7	45·2	+ 3·6	22	0	*	*	*	*	*	*	4	0·23	—	2·3	—	24	—	*Weymouth.*
p Plymouth	54	17th	33	14th	51·2	42·3	46·8	+ 4·7	34	0	1	22	43·8	+2·4	*	*	4	0·76	+ 0·10	2·2	- 0·5	22	- 5	Plymouth.
p Falmouth	52	15, 16, 17	37	14th	49·7	44·4	47·1	+ 4·0	36	0	*	*	*	*	*	*	4	0·95	+ 0·08	1·1	- 1·8	11	-19	Falmouth.
9. IRELAND. N.																								
a Malin Head	53	15th	35	14th	47·7	38·1	42·9	+ 2·1	23	11	*	*	*	*	*	*	2	0·02	- 0·52	*	*	*	*	
a, West .. *a* Blacksod Point ..	55	16th	34	13, 14	49·3	39·0	44·2	+ 1·6	28	8	*	*	*	*	*	*	3	0·57	- 0·32	*	*	*	*	
p Markree Castle ..	56	16th	29	14th	48·9	35·4	42·2	+ 2·2	29	18	3	24	40·6	*	42·5	*	3	0·40	- 0·36	1·5	- 0·7	16	- 7	Markree Castle.
a Birr Castle	54	15th	34	14th	49·1	39·1	44·1	+ 3·8	27	8	*	*	*	*	*	*	2	0·12	- 0·40	1·0	- 1·3	10	-14	*Birr Castle.*
b, East .. *p* Armagh	55	15th	31	14th	47·6	37·0	42·3	+ 2·5	23	14	3	22	39·5	-0·7	41·2	-1·4	4	0·24	- 0·28	0·9	- 1·3	10	-13	Armagh.
a Donaghadee	50	16th	37	15th	46·4	40·0	43·2	+ 2·6	17	6	*	*	*	*	*	*	1	0·23	- 0·33	*	*	*	*	
											3	18	41·6	+0·4	42·8	-0·4	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											4	20	*	*	*	*	—	—	—	1·1	- 1·4	12	-15	Phœnix Park.
p Dublin, City	55	15th	32	14th	49·4	40·1	44·8	+ 2·6	28	5	1	29	*	*	*	*	2	0·19	- 0·31	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	56	15th	28	14th	49·6	37·0	43·3	+ 2·4	30	14	*	*	*	*	*	*	6	0·46	- 0·18	*	*	*	*	
a Waterford	52	15, 16	30	14th	49·6	39·9	44·8	+ 3·3	28	6	*	*	*	*	*	*	3	0·98	+ 0·17	*	*	*	*	
a Birr Castle	54	15th	34	14th	49·1	39·1	44·1	+ 3·8	27	8	*	*	*	*	*	*	2	0·12	- 0·40	1·0	- 1·3	10	-14	Birr Castle.
a Foynes	55	16th	34	13th	50·1	39·6	44·9	+ 2·4	30	7	*	*	*	*	*	*	5	0·37	- 0·38	*	*	*	*	
a Cahir	55	15th	30	14th	49·6	38·1	43·9	+ 2·5	30	11	*	*	*	*	*	*	5	0·73	—	*	*	*	*	
b, West .. *a* Killarney	57	15th	39	11,13,14	51·5	42·5	47·0	+ 4·4	35	0	*	*	*	*	*	*	6	0·84	- 0·40	*	*	*	*	
a Valencia	54	16th	33	13, 14	51·3	40·3	45·8	+ 1·5	34	5	*	*	*	*	*	*	5	0·77	- 0·46	1·7	- 0·8	18	- 9	Valencia.
a Roche's Point	51	15th	39	13, 14	49·1	42·4	45·8	+ 2·4	27	0	*	*	*	*	*	*	7	0·83	- 0·08	1·5	—	16	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	15, 16	42	14th	52·1	45·1	48·6	+ 3·4	46	0	*	*	*	*	*	*	6	0·76	+ 0·11	1·8	- 1·2	18	-12	Scilly.
a Jersey, St. Aubins ..	54	12th	38	15th	51·6	42·3	47·0	+ 4·3	35	0	*	*	*	*	*	*	3	0·15	- 0·42	3·4	+ 0·2	34	+ 2	St. Heliers.
a Guernsey (Villa Carey)	53	16th	41	14, 15	50·7	43·7	47·2	+ 3·8	36	0	2	28	44·9	+2·6	45·8	+1·1	3	0·25	- 0·40	3·0	0·0	30	- 1	Guernsey.*

Additional Sunshine Means :—*Bognor, 2·7 hrs. 28%; Newcastle (Pendower), 0·4 hrs. 4%; Ramsgate, 1·6 hrs. 17%; Rhyl, 0·9 hrs. 9%; Salcombe, hrs. %; Tenby, 1·8 hrs. (-1·0) 19% (-10%); Torquay, 2·9 hrs. (+0·2) 30% (+2%).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, February 17th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	42	42	42·0	-0·2	SCOTLAND, W. ..	Lamlash	44	43	43·1	-0·8
	Kirkwall	42	42	42·0	+1·1		Ballantrae .. .	46	43	44·3	+1·5
	Wick	43	42	42·9	-0·6	ENGLAND, N.W. ..	Port Erin	45	44	44·4	-0·1
SCOTLAND, E. ..	Cromarty	40	36	38·0	-1·1	ENGLAND, S.W. ..	Newquay	48	46	46·0	-0·2
	Pennan Bay	43	42	42·7	+2·3		Scilly	46	45	45·8	—
	Aberdeen, Cove Bay	42	42	42·0	+1·8		Plymouth‡	47	43	45·4	-0·8
SCOTLAND, N.E. ..	Burnmouth, Berwick	38	37	37·9	-1·3		Salcombe	47	45	46·7	+1·5
	Scarborough	44	40	41·6	+1·3	IRELAND, N.W. ..	Sheephaven	45	44	44·1	-0·5
ENGLAND, E. ..	Shipwash Lightship	46	41	42·7	+3·3		Teelin	45	43	44·2	0·0
	Margate‡	44	42	42·9	+3·2	IRELAND, S.W. ..	Cleggan	43	41	41·8	-2·4
ENGLAND, S.E. ..	Eastbourne‡	45	42	43·3	+3·6	IRELAND, E.	Seafield	48	42	44·6	-1·0
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **S** are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

SEVENTH WEEK—February 11th to February 17th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	53	29	45·7	35·4	40·6	+ 3·2	10	+ 3	26	− 15	3	− 2	0·29	−0·84	2·2	+0·2	24	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	54	25	44·6	34·2	39·4	+ 2·7	7	− 1	29	− 17	4	0	0·30	−0·23	0·9	−1·8	10	−19
2. ENGLAND, N.E.	53	28	45·2	37·6	41·4	+ 3·0	9	− 1	18	− 17	5	+ 2	0·37	+0·02	0·2	−2·5	2	−26
3. ENGLAND, EAST ...	57	35	47·4	39·7	43·6	+ 5·4	21	+ 10	6	− 33	3	0	0·29	−0·07	0·8	−2·0	8	−21
4. MIDLAND COUNTIES ...	56	31	47·1	38·3	42·7	+ 4·3	20	+ 7	10	− 29	4	+ 1	0·44	+0·01	0·4	−2·0	4	−21
5. ENGLAND, S.E.	56	30	48·5	41·1	44·8	+ 5·1	23	+ 9	3	− 27	4	0	0·48	+0·01	1·6	−1·0	17	−11
Western.																		
6. SCOTLAND, WEST ...	52	30	46·2	37·1	41·7	+ 2·9	12	+ 3	20	− 14	3	− 1	0·50	−0·44	1·0	−1·2	11	−12
7. ENGLAND, N.W.	57	30	46·9	38·1	42·5	+ 3·2	20	+ 9	11	− 19	4	0	0·42	−0·13	1·1	−1·3	12	−14
8. ENGLAND, S.W.	55	31	48·7	40·5	44·6	+ 3·6	25	+ 8	4	− 20	5	+ 2	0·61	−0·11	1·6	−1·0	17	−11
9. IRELAND, NORTH ...	56	29	48·2	38·1	43·2	+ 2·8	25	+ 10	11	− 15	3	− 1	0·26	−0·39	1·2	−1·2	13	−13
10. IRELAND, SOUTH ...	57	28	49·9	39·9	44·9	+ 3·0	29	+ 8	6	− 15	5	+ 1	0·59	−0·19	1·3	−1·3	14	−14
11. ENGLISH CHANNEL ...	54	38	51·5	43·7	47·6	+ 3·7	39	+ 15	0	− 11	4	− 1	0·39	−0·25	2·7	−0·5	27	− 6

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 11 Weeks, December 3rd, 1911, to February 17th, 1912.

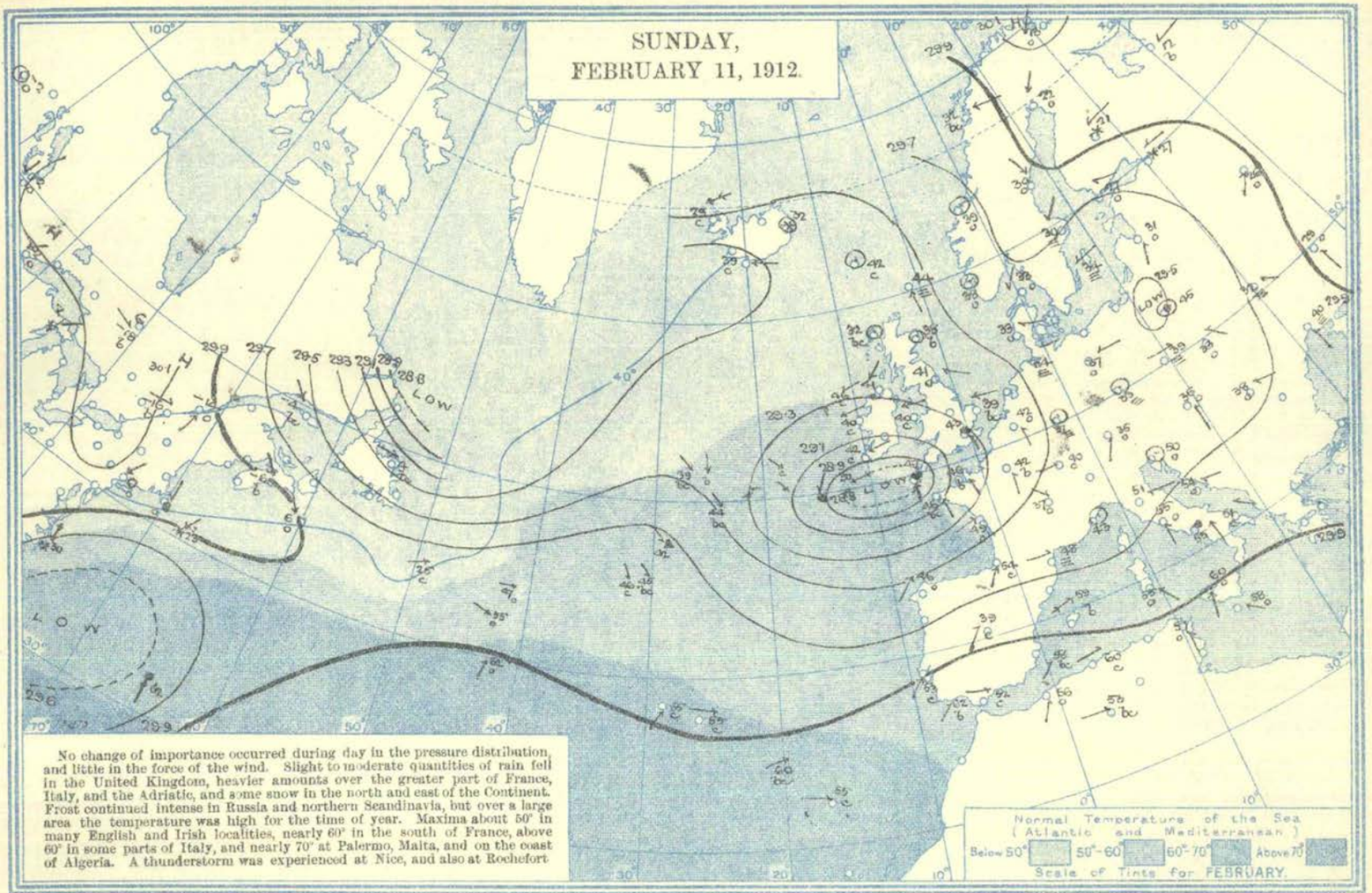
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	87	+ 6	337	− 42	57	− 1	10·25	−4·16	1·2	+0·3	17	+ 4
Eastern.																		
1. SCOTLAND, EAST ...	56	−5	*	*	*	*	55	− 28	429	− 20	55	+10	7·99	+1·37	1·3	−0·2	18	− 3
2. ENGLAND, N.E	55	10	*	*	*	*	81	− 15	345	− 14	56	+17	7·19	+2·46	1·3	−0·3	17	− 4
3. ENGLAND, EAST ...	57	14	*	*	*	*	131	+ 27	258	−150	55	+13	7·31	+2·88	1·4	−0·4	17	− 5
4. MIDLAND COUNTIES ...	56	9	*	*	*	*	135	+ 16	331	− 78	53	+12	9·78	+4·30	1·3	−0·2	16	− 3
5. ENGLAND, S.E.	56	13	*	*	*	*	186	+ 34	206	− 95	52	+10	10·71	+4·84	1·4	−0·3	17	− 4
Western.																		
6. SCOTLAND, WEST ...	55	12	*	*	*	*	103	− 16	295	− 1	55	+ 4	13·84	+1·89	1·2	−0·1	15	− 1
7. ENGLAND, N.W.	58	7	*	*	*	*	134	+ 13	266	− 25	54	+ 8	10·23	+2·62	1·5	+0·2	19	+ 3
8. ENGLAND, S.W.	57	9	*	*	*	*	221	+ 24	177	− 44	59	+12	14·35	+4·66	1·7	0·0	21	0
9. IRELAND, NORTH ...	58	15	*	*	*	*	177	+ 26	217	− 37	49	− 4	9·97	+1·29	1·6	+0·1	20	+ 1
10. IRELAND, SOUTH ...	57	13	*	*	*	*	233	− 2	177	− 15	60	+10	13·63	+3·46	1·6	−0·2	20	− 2
11. ENGLISH CHANNEL ...	57	27	*	*	*	*	387	+ 85	41	− 38	54	+ 1	10·94	+2·74	2·0	−0·2	24	− 2

THE YEAR.—Aggregates, &c., for the Period of 7 Weeks, December 31st, 1911, to February 17th, 1912.

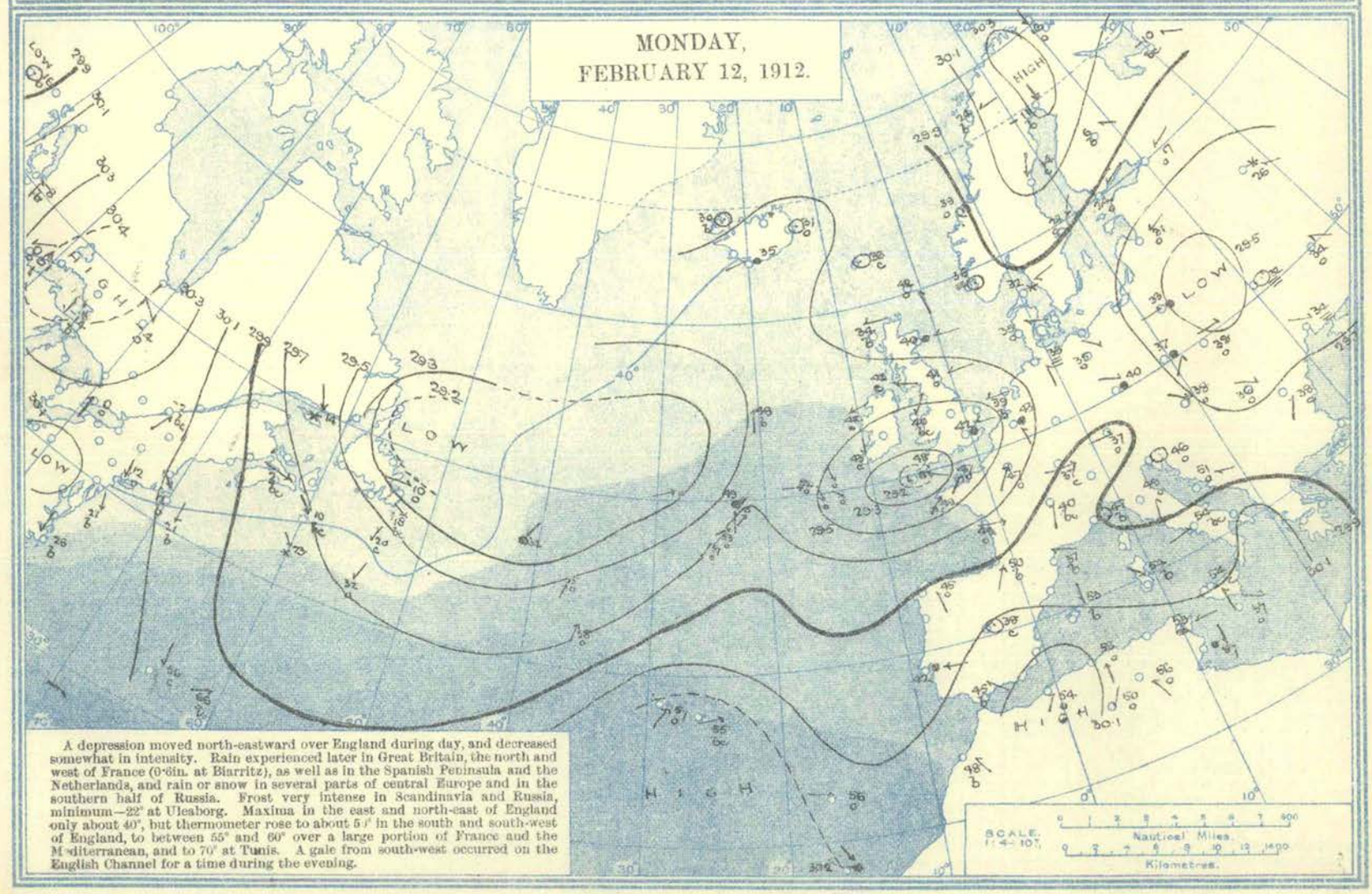
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	34	− 13	269	+ 12	32	− 5	4·51	−4·60	1·5	+0·4	20	+ 5
Eastern.																		
1. SCOTLAND, EAST ...	56	−5	*	*	*	*	18	− 35	323	+ 30	33	+ 5	3·82	−0·16	1·3	−0·5	17	− 6
2. ENGLAND, N.E.	55	10	*	*	*	*	31	− 30	262	+ 28	33	+ 8	3·80	+1·09	1·2	−0·6	15	− 7
3. ENGLAND, EAST ...	57	14	*	*	*	*	52	− 13	203	− 62	31	+ 5	3·53	+0·84	1·3	−0·7	15	− 8
4. MIDLAND COUNTIES ...	56	9	*	*	*	*	50	− 27	266	+ 4	29	+ 3	4·93	+1·57	1·2	−0·5	14	− 6
5. ENGLAND, S.E.	56	13	*	*	*	*	78	− 11	170	− 30	28	+ 2	4·48	+0·92	1·3	−0·6	15	− 7
Western.																		
6. SCOTLAND, WEST ...	54	12	*	*	*	*	38	− 33	242	+ 42	28	− 4	6·39	−0·81	1·3	−0·2	16	− 3
7. ENGLAND, N.W. ...	57	7	*	*	*	*	54	− 18	225	+ 33	29	0	4·30	−0·30	1·6	+0·1	19	+ 1
8. ENGLAND, S.W.	56	9	*	*	*	*	103	− 14	159	+ 8	33	+ 4	6·17	+0·55	1·7	−0·2	20	− 2
9. IRELAND, NORTH ...	56	15	*	*	*	*	95	− 1	157	− 10	24	− 9	4·22	−1·03	1·7	0·0	21	0
10. IRELAND, SOUTH ...	57	13	*	*	*	*	133	− 11	126	0	33	+ 2	6·29	+0·24	1·6	−0·3	19	− 4
11. ENGLISH CHANNEL ...	54	27	*	*	*	*	209	+ 36	41	− 19	27	− 6	4·30	−0·40	2·1	−0·3	24	− 3

NOTES ON TABLE IV.

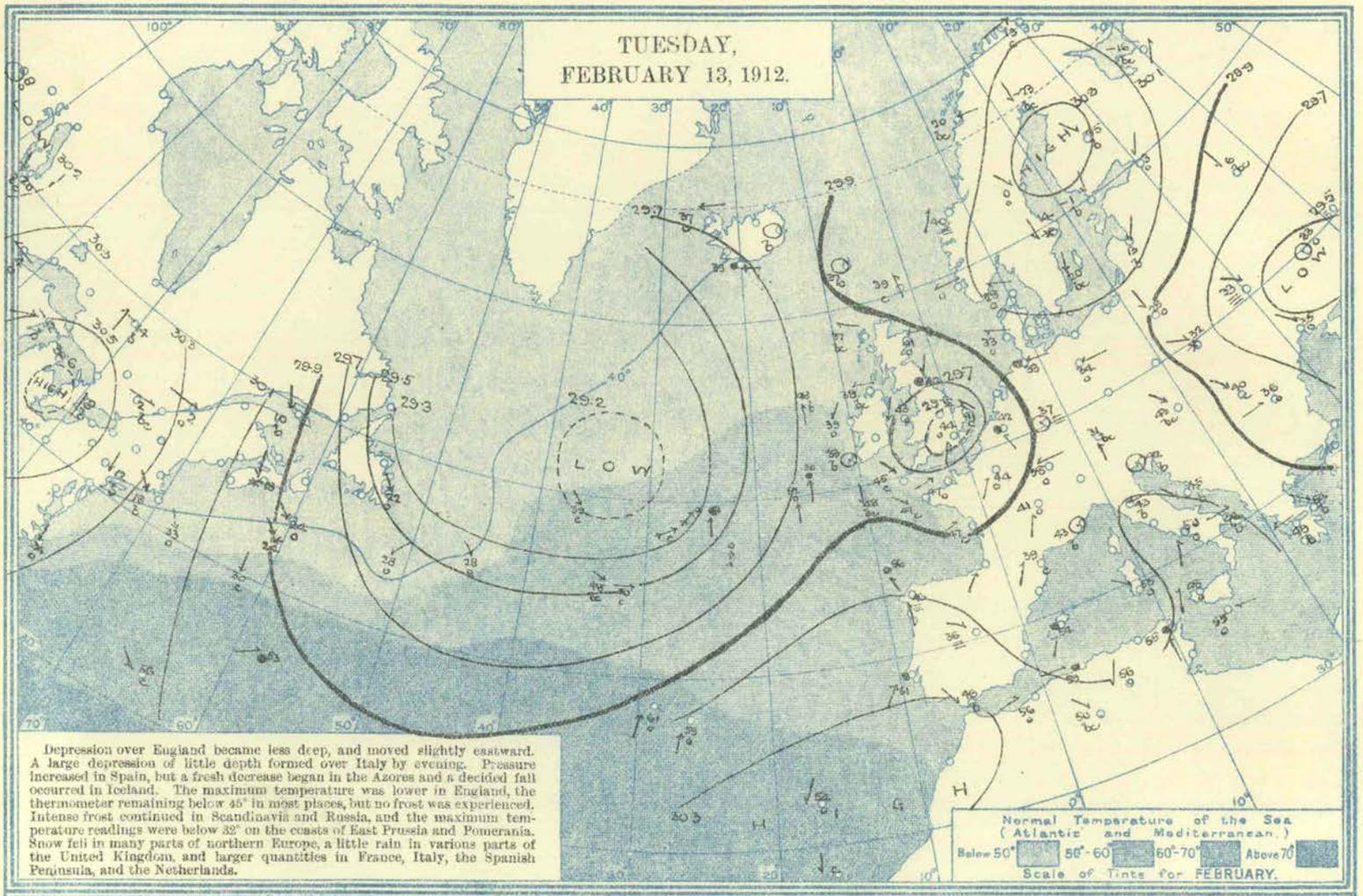
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



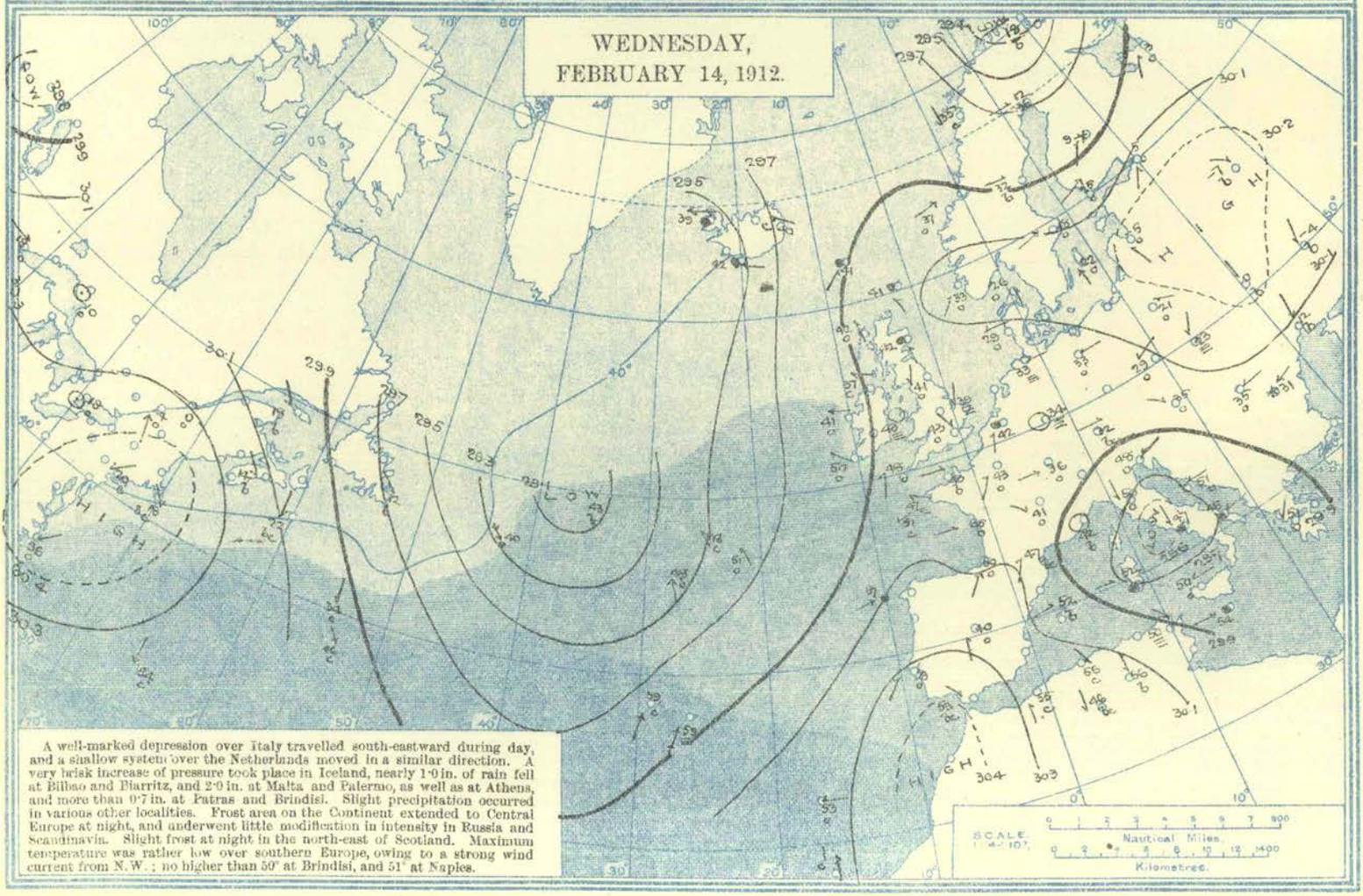
No change of importance occurred during day in the pressure distribution, and little in the force of the wind. Slight to moderate quantities of rain fell in the United Kingdom, heavier amounts over the greater part of France, Italy, and the Adriatic, and some snow in the north and east of the Continent. Frost continued intense in Russia and northern Scandinavia, but over a large area the temperature was high for the time of year. Maxima about 50° in many English and Irish localities, nearly 60° in the south of France, above 60° in some parts of Italy, and nearly 70° at Palermo, Malta, and on the coast of Algeria. A thunderstorm was experienced at Nice, and also at Rochefort



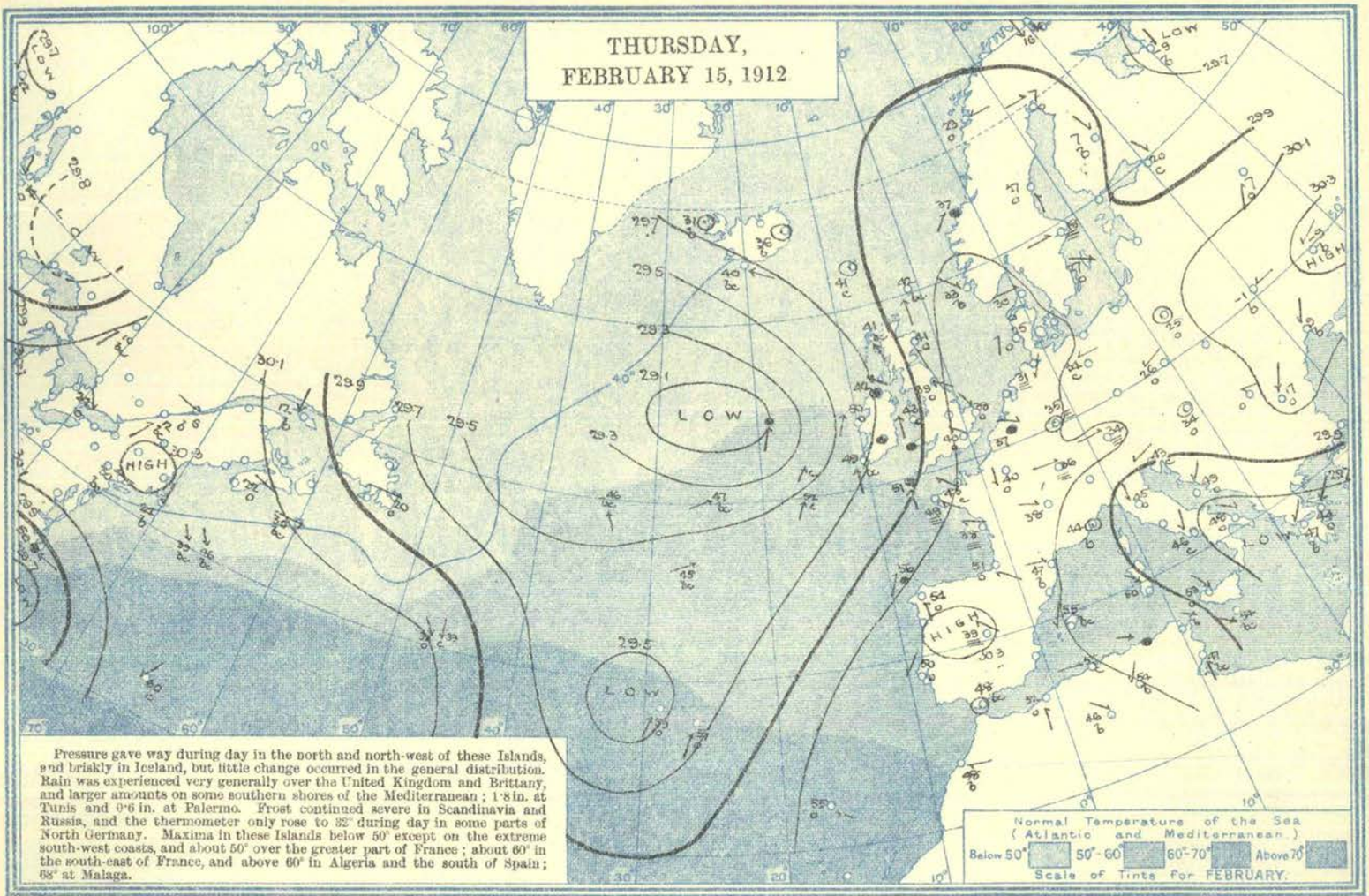
A depression moved north-eastward over England during day, and decreased somewhat in intensity. Rain experienced later in Great Britain, the north and west of France (0·6in. at Biarritz), as well as in the Spanish Peninsula and the Netherlands, and rain or snow in several parts of central Europe and in the southern half of Russia. Frost very intense in Scandinavia and Russia, minimum—22° at Ulesborg. Maxima in the east and north-east of England only about 40°, but thermometer rose to about 54° in the south and south-west of England, to between 55° and 60° over a large portion of France and the Mediterranean, and to 70° at Tunis. A gale from south-west occurred on the English Channel for a time during the evening.



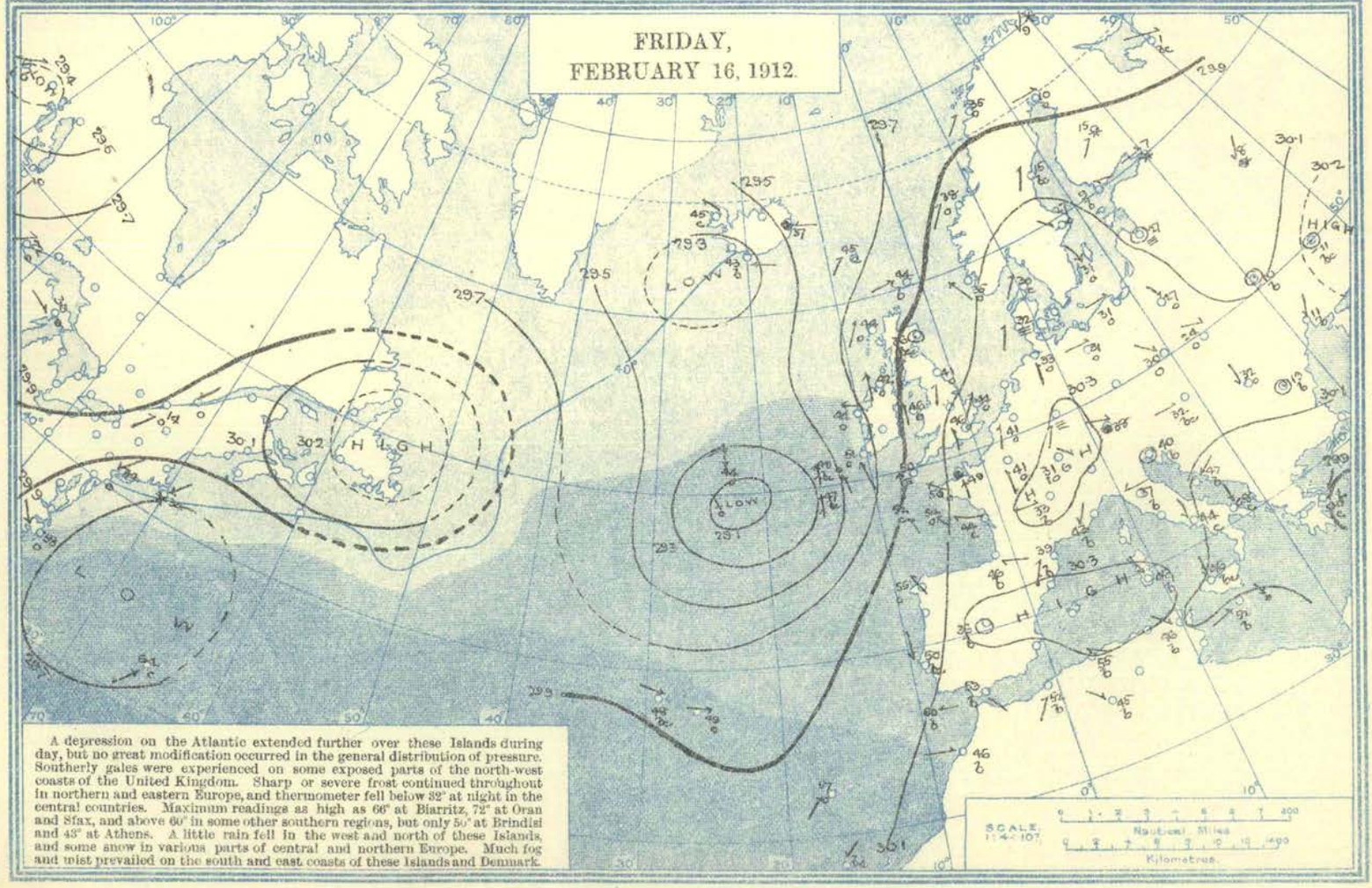
Depression over England became less deep, and moved slightly eastward. A large depression of little depth formed over Italy by evening. Pressure increased in Spain, but a fresh decrease began in the Azores and a decided fall occurred in Iceland. The maximum temperature was lower in England, the thermometer remaining below 45° in most places, but no frost was experienced. Intense frost continued in Scandinavia and Russia, and the maximum temperature readings were below 32° on the coasts of East Prussia and Pomerania. Snow fell in many parts of northern Europe, a little rain in various parts of the United Kingdom, and larger quantities in France, Italy, the Spanish Peninsula, and the Netherlands.



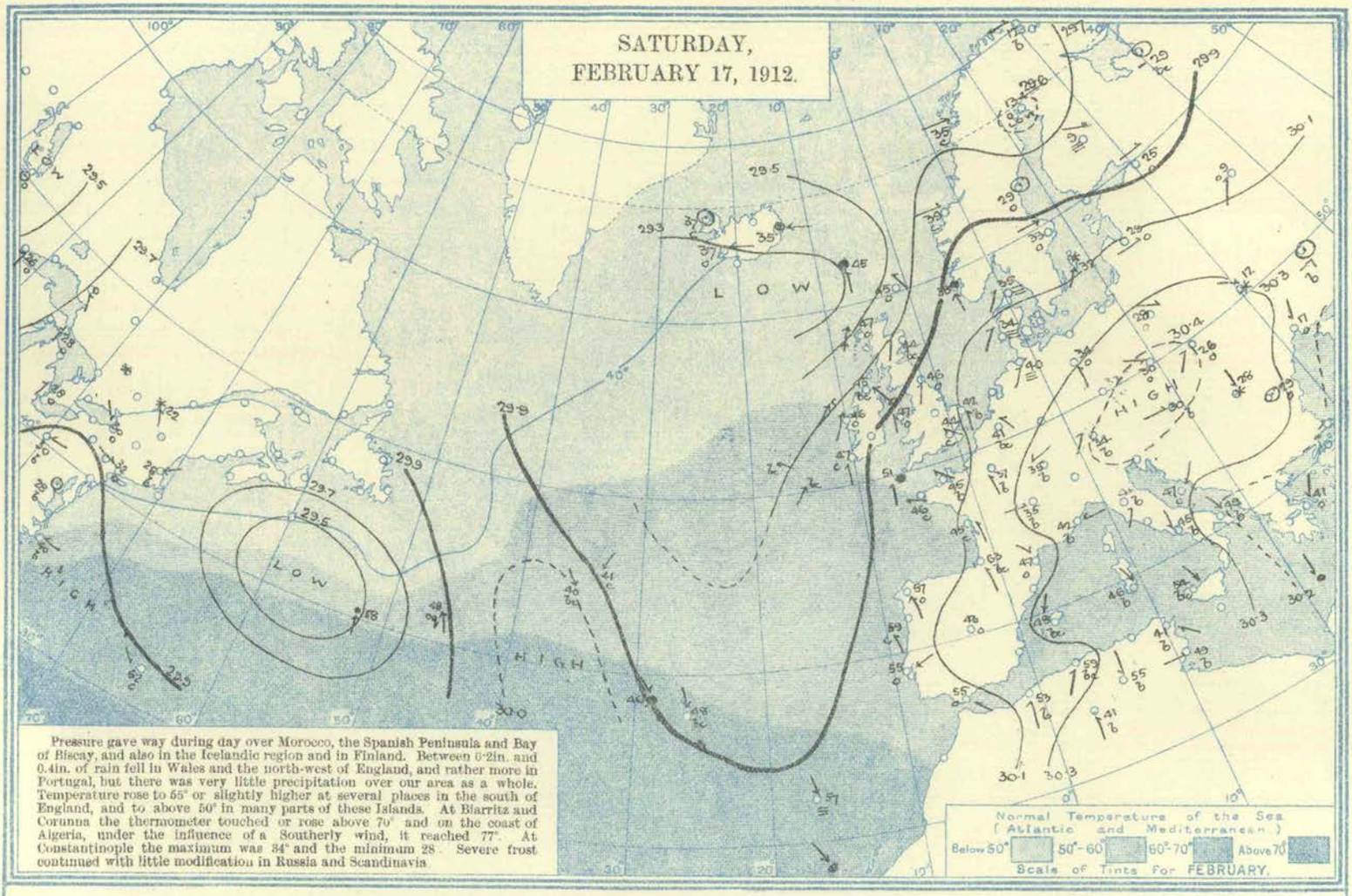
A well-marked depression over Italy travelled south-eastward during day, and a shallow system over the Netherlands moved in a similar direction. A very brisk increase of pressure took place in Iceland, nearly 1·0 in. of rain fell at Bilbao and Biarritz, and 2·0 in. at Malta and Palermo, as well as at Athens, and more than 0·7 in. at Patras and Brindisi. Slight precipitation occurred in various other localities. Frost area on the Continent extended to Central Europe at night, and underwent little modification in intensity in Russia and Scandinavia. Slight frost at night in the north-east of Scotland. Maximum temperature was rather low over southern Europe, owing to a strong wind current from N.W.; no higher than 50° at Brindisi, and 51° at Naples.



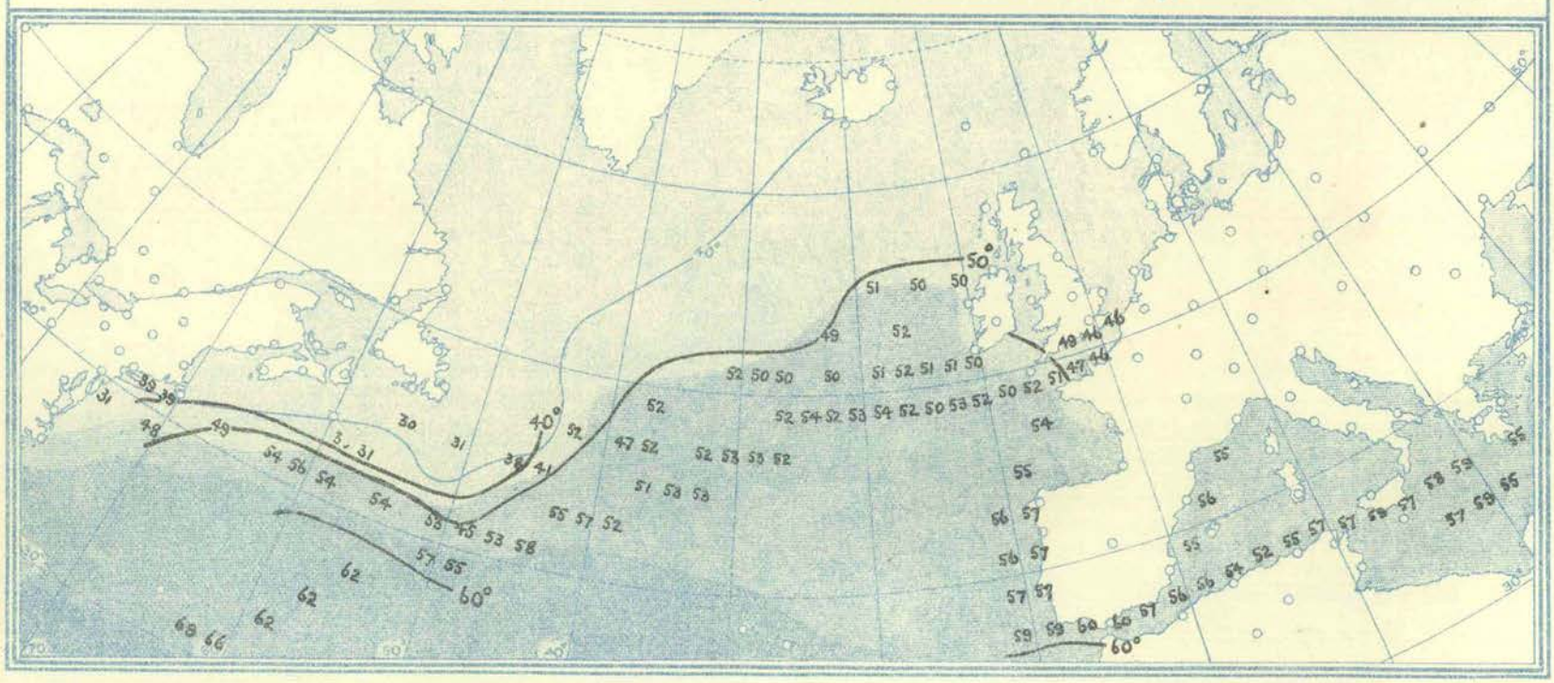
Pressure gave way during day in the north and north-west of these Islands, and briskly in Iceland, but little change occurred in the general distribution. Rain was experienced very generally over the United Kingdom and Brittany, and larger amounts on some southern shores of the Mediterranean; 1·8 in. at Tunis and 0·6 in. at Palermo. Frost continued severe in Scandinavia and Russia, and the thermometer only rose to 32° during day in some parts of North Germany. Maxima in these Islands below 50° except on the extreme south-west coasts, and about 50° over the greater part of France; about 60° in the south-east of France, and above 60° in Algeria and the south of Spain; 68° at Malaga.



A depression on the Atlantic extended further over these Islands during day, but no great modification occurred in the general distribution of pressure. Southerly gales were experienced on some exposed parts of the north-west coasts of the United Kingdom. Sharp or severe frost continued throughout in northern and eastern Europe, and thermometer fell below 32° at night in the central countries. Maximum readings as high as 66° at Biarritz, 72° at Oran and Sfax, and above 60° in some other southern regions, but only 50° at Brindisi and 43° at Athens. A little rain fell in the west and north of these Islands, and some snow in various parts of central and northern Europe. Much fog and mist prevailed on the south and east coasts of these Islands and Denmark.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 17TH. FEBRUARY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); → = a gale (Forces 8 and 9); → = a moderate breeze to high wind (Forces 4 to 7); → a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

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THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 8. EIGHTH WEEK, SUNDAY, FEBRUARY 18TH, TO SATURDAY, FEBRUARY 24TH, 1912.

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I.—General Remarks.

Weather was generally very cloudy or overcast, while on most days there was more or less rain. Fog and mist prevailed at times on various parts of the coast.

Temperature exceeded the normal in all districts, the excess being as much as 7° in England E. and the Midland Counties, and more than 6° in England N.E. and S.E. The highest of the maxima were registered on the 22nd or 23rd at most stations, and ranged from 60° in Ireland, and 58° in England N.W. to 54° in Scotland N. and 52° in Scotland W. The lowest of the minima, which were recorded generally on the 21st or 24th, ranged from 25° in England S.W. and 27° in Scotland E. to 31° in England N.E. and to 39° in the English Channel. During the week as a whole the minima were very high for the time of the year. The lowest grass readings recorded were 19° at Dublin, and 20° at Llangammarch Wells, Newton Rigg, and Southampton. At a depth of 1 ft. the soil was warmer than usual at all stations—as much as 3° or 4° at many places, and about 5° locally in the south-east of England. At a depth of 4 ft. there was also an excess of warmth in most places.

Mean Temperature of the Sea. On nearly all parts of the coast the mean temperature was above the average, and on the south-eastern, eastern, and northern coasts of Great Britain it was also higher than during the corresponding week of last year. On the coasts of Devon and Cornwall the mean value was about 48°, and at Seafield 47°, but at Burnmouth it decreased to 38°.

Rainfall was more than the average in all districts except England N.W., the excess being very considerable in the west and north. On the 18th the fall amounted to more than an inch in some Irish localities; at Killarney 1·30 in., and at Markree Castle 1·05 in., the latter being followed by 0·81 in. on the 19th.

Bright Sunshine was below the normal except in Scotland W. The percentage of the possible duration ranged from 28 in Ireland S. and 25 in England N.E. to 9 in England S.W., and to 5 in England S.E.

Barometer and Wind. During the earlier half of the week a depression from the Bay of Biscay region travelled slowly northward and north-eastward over Ireland and England, and subsequently passed away eastward across the North Sea, after having decreased considerably in intensity. The winds over the United Kingdom were therefore at first mostly from between South-East and North-East. On Monday, when the direction shifted to North and North-West and West in the west and south, a gale was experienced on exposed parts of those coasts. By Wednesday the main wind current in Great Britain had become Westerly or North-Westerly, but in Ireland it had already shifted to the Southward under the influence of a large low-pressure system on the Atlantic, and during the remainder of the week it varied between South and South-West or West over the whole Kingdom, and at times increased considerably in force. On the north coast of Ireland it blew a gale late on Thursday and through the night; and on the north-east coast of Scotland a brief squally gale occurred on Friday afternoon or evening.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 31.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Moderate	Moderate	Heavy	Very heavy	Heavy	Very heavy
	Sunshine ...	Scanty	Scanty	Moderate	Very scanty	Scanty	Very scanty	Moderate	Moderate	Very scanty	Moderate	Moderate	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 12 weeks from Dec. 3rd, 1911.	Warmth ...	3 * 2	3 * 3	4 * 3	5 * 1	5 * 3	5 * 2	4 * 4	5 * 3	5 * 1	6 * 3	4 * 4	8 * 1
	Rainfall ...	3 * 5	6 * 0	6 * 0	8 * 0	7 * 1	9 * 1	7 * 2	6 * 2	6 * 1	6 * 3	7 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 3	3 * 8	3 * 6	2 * 9	3 * 5	4 * 3	2 * 6	5 * 3	2 * 4	2 * 5

PAST SEASONS.

WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 6	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

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II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hrs.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*48*	*18, 24*	*34*	*19th*	*45·6*	*39·6*	*42·6*	—	*14*	*7*	•	•	40·0	•	•	•								
a, Islands .. *a* Lerwick	47	23, 24	35	19, 20	44·7	37·6	41·2	+ 3·0	8	18	•	•	•	•	•	•	7	1·73	—	1·3	- 0·9	14	-10	Deerness.
a Stornoway	50	22nd	35	21, 22	46·3	37·9	42·1	+ 3·0	18	11	•	•	•	•	•	•	7	1·44	+ 0·43	1·8	- 0·6	19	- 6	Stornoway.
a Castlebay, Barra Isd.	*50*	*22nd*	*37*	*19, 20*	*46·4*	*39·9*	*43·2*	*+ 1·7*	*17*	*6*	•	•	•	•	•	•	7	*1·90*	—	*2·2*	—	*23*	—	*Castlebay.*
a Wick	48	22nd	36	19th	45·3	38·4	41·9	+ 4·1	9	15	•	•	•	•	•	•	6	1·40	+ 0·87	•	•	•	•	
b, Main- *p* Strathpeffer ..	53	23rd	34	21, 22	47·9	36·3	42·1	+ 4·6	25	16	•	•	•	•	•	•	4	0·84	+ 0·20	1·6	- 0·8	17	- 8	Strathpeffer.
land. *p* Glencarron ..	54	22nd	33	19, 21	46·4	35·8	41·1	+ 4·3	12	25	•	•	•	•	•	•	6	1·66	- 0·11	•	•	•	•	
p Fort Augustus..	53	22, 23	30	21st	48·6	36·6	42·6	+ 4·4	27	15	•	•	•	•	•	•	4	0·99	- 0·00	1·5	- 0·2	16	- 2	Fort Augustus.
p Fort William ..	54	22nd	28	1st	47·7	36·6	42·2	+ 3·0	24	15	•	•	•	•	•	•	4	1·30	- 0·44	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	54	23rd	37	24th	49·4	39·1	44·3	+ 5·6	28	8	3	26	38·6	+2·6	38·3	+1·0	—	—	—	1·4	—	14	—	Crathes S.
a Nairn	53	22, 23	34	18, 19	47·7	36·4	42·1	+ 4·1	24	16	•	•	•	•	•	•	4	0·81	+ 0·29	*2·0*	—	*21*	—	*Gordon Castle.*
a Aberdeen	52	24th	35	19th	47·9	38·4	43·2	+ 4·9	24	10	•	•	•	•	•	•	6	0·94	+ 0·49	1·5	—	16	—	Nairn.
a Balmoral ..	53	22nd	29	24th	48·6	33·0	40·8	+ 6·5	18	36	6	25	•	•	•	•	4	0·93	+ 0·30	•	•	•	•	
p Crieff	50	23rd	30	21st	47·4	35·9	41·7	+ 3·4	15	25	•	•	•	•	40·1	+1·2	5	1·19	+ 0·66	1·4	- 1·4	14	-14	Aberdeen.
a Leith	55	22nd	32	21st	48·3	38·3	43·3	+ 3·7	25	10	•	•	•	•	•	•	4	1·47	+ 0·68	2·9	—	30	—	Balruddery.
p West Linton ..	52	22nd	27	21st	47·1	35·1	41·1	+ 4·3	14	28	•	•	•	•	•	•	7	0·95	+ 0·58	•	•	•	•	
p Marchmont ..	50	22, 23	34	18, 21, 24	47·4	36·6	42·0	+ 4·6	15	15	2	28	38·6	+2·2	•	•	6	1·39	+ 0·87	*2·5*	—	*25*	—	*West Linton.*
																				2·8	+ 0·3	28	+ 3	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	53	23rd	35	24th	49·9	38·7	44·3	+ 5·8	30	9	1	26	40·5	+3·7	40·1	+1·3	5	1·08	+ 0·58	2·7	—	27	—	Cockle Park.
a Shields	55	23rd	34	21, 24	49·1	38·4	43·8	+ 4·6	28	10	•	•	•	•	•	•	6	1·08	+ 0·74	*1·9*	*0·0*	*19*	*0*	*Newcastle,*
p Durham	52	22, 23	32	21, 24	48·6	37·4	43·0	+ 5·0	26	13	1	25	•	•	•	•	4	0·78	+ 0·44	2·4	- 0·2	24	- 2	Durham.
a, North .. *p* Rounton	53	23rd	31	24th	50·1	37·3	43·7	+ 5·7	32	13	2	27	40·8	•	•	•	4	0·37	- 0·01	•	•	•	•	
a West Witton	*53*	*22nd*	*29*	*24th*	*49·0*	*38·0*	*43·5*	—	*27*	*11*	2	25	39·8	•	38·1	•	*3*	*0·53*	—	•	•	•	•	*West Witton.*
p Scarborough ..	55	19, 23	36	24th	51·3	40·9	46·1	+ 6·8	33	3	•	•	•	•	•	•	3	0·36	- 0·08	3·2	—	32	—	Scarborough.
p York	55	23rd	33	24th	50·9	40·0	45·5	+ 6·5	33	6	•	•	41·2	+3·0	40·9	+0·7	3	0·31	- 0·08	1·7	- 0·6	17	- 6	York.
a Spurn Head	53	23rd	36	24th	47·9	38·3	43·1	+ 3·9	23	10	2	25	42·3	+4·3	41·4	+0·7	5	0·35	+ 0·05	*2·0*	—	*20*	—	*Hull.*
b, South .. *a* Lincoln	56	18, 23	35	21, 22, 24	52·4	39·7	46·1	+ 7·2	38	6	•	•	40·9	+3·5	40·6	+1·0	4	0·18	- 0·19	•	•	•	•	Lincoln.
a Fulbeck	55	23rd	34	24th	51·4	40·0	45·7	+ 6·4	34	6	3	28	43·2	+4·3	42·1	+0·4	5	0·28	- 0·09	2·3	—	23	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·6	—	26	—	Skegness.
3. ENGLAND, E.											0	32	42·4	+3·7	42·5	+1·8	—	—	—	*2·3*	—	*23*	—	*Lowestoft.*
p Cromer	56	19, 23	36	21st	51·9	40·4	46·2	+ 8·5	36	4	•	•	•	•	•	•	6	0·56	—	2·8	—	28	—	Cromer.
p Hillington	56	23rd	33	21st	52·0	39·7	45·9	+ 7·2	37	6	2	25	•	•	•	•	4	0·58	+ 0·17	2·0	- 0·8	20	- 8	Hillington.
a, North .. *a* Yarmouth ..	55	23rd	36	21, 22	49·0	39·0	44·0	+ 5·6	27	8	•	•	42·4	+4·3	43·3	+1·9	4	0·61	+ 0·27	2·4	—	24	—	Yarmouth
a Norwich	56	23rd	35	21st	51·9	40·9	46·4	+ 7·9	35	3	1	29	42·5	•	•	•	4	0·66	—	*2·3*	—	*23*	—	*Norwich.*
p Geldeston	55	23rd	35	21st	52·4	41·4	46·9	+ 7·7	37	2	•	•	•	•	•	•	5	0·52	+ 0·18	2·2	- 0·7	22	- 7	Geldeston.
p Cambridge	56	23rd	32	21st	52·7	40·9	46·8	+ 7·6	38	3	2	25	44·0	+5·3	43·1	+1·9	4	0·55	+ 0·22	1·5	- 1·4	15	-14	Cambridge.
a Felixstowe	*51*	*24th*	*37*	*21st*	*48·0*	*40·7*	*44·4*	*+ 5·2*	*22*	*4*	•	•	•	•	•	•	*6*	*0·53*	—	*1·9*	—	*19*	—	*Felixstowe,*
b, South .. *a* Clacton-on-Sea ..	51	24th	35	22nd	48·0	40·3	44·2	+ 5·1	23	5	1	29	43·8	+3·8	44·6	+1·8	5	0·52	—	1·6	—	16	—	Clacton.
a Rothamsted	54	23rd	30	21st	50·3	39·1	44·7	+ 6·2	31	8	•	•	•	•	•	•	4	0·67	+ 0·23	0·4	- 2·3	4	-23	Rothamsted.
a Shoeburyness	*54*	*23rd*	*36*	*21, 22*	*49·6*	*40·1*	*44·9*	*+ 5·2*	*28*	*5*	0	31	44·4	+4·4	•	•	*5*	*0·48*	*+ 0·20*	*1·1*	—	*11*	—	*Southend.*
p Tottenham	55	23rd	35	21st	51·3	43·4	47·4	+ 7·5	38	0	1	30	•	•	43·8	+1·4	4	0·64	—	0·1	—	1	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	53	22, 23	32	24th	49·4	38·7	44·1	+ 6·4	29	9	2	26	40·6	+3·1	39·7	+0·1	—	—	—	*2·3*	—	*23*	—	*Huddersfield.*
a Bawtry	55	19, 22	30	24th	52·6	40·9	46·8	+ 7·7	38	3	2	26	40·6	+2·6	39·7	+0·4	3	0·40	- 0·11	2·6	—	26	—	Harrogate.
p Buxton	*61*	*22, 23*	*31*	*24th*	*46·8*	*38·4*	*42·6*	*+ 6·4*	*19*	*10*	2	22	42·0	•	40·9	•	3	0·24	- 0·13	1·8	- 0·5	18	- 5	Worksop.
a, East .. *a* Nottingham	56	23rd	34	22, 24	52·3	39·6	46·0	+ 7·0	38	7	2	27	42·8	+5·3	39·8	+1·1	*5*	*0·27*	*- 0·66*	*1·0*	—	*10*	—	*Buxton.*
p Birmingham, Edgbsn.	54	18th	34	21st	*46·8*	*38·4*	*42·6*	*+ 6·4*	*19*	*10*	2	24	40·3	+3·3	40·7	+0·4	4	0·29	- 0·10	2·1	—	21	—	Nottingham.
a Raunds	56	18, 23	31	21st	52·9	39·1	46·0	+ 7·1	40	8	2	23	43·4	+3·6	43·5	+0·5	4	0·20	- 0·21	0·6	—	6	—	Birmingham.
a Oxford	56	23rd	33	21st	51·4	41·3	46·4	+ 6·6	34	2	2	25	41·6	•	42·6	•	4	0·53	—	•	•	•	•	Raunds.
											1	25	•	•	•	•	4	0·75	+ 0·36	0·5	- 2·1	5	-21	Oxford.
a Cheadle	52	18, 22	32	21st	48·3	41·2	44·8	+ 6·9	23	2	2	29	41·2	+3·7	40·1	+0·1	—	—	—	2·3	—	23	—	Sheffield.
p Shrewsbury	55	22, 23	30	21, 24	50·9	38·1	44·5	+ 4·5	34	11	3	24	•	•	•	•	4	0·42	- 0·08	•	•	•	•	Cheadle.
b, West .. *a* Hereford	54	22nd	30	21st	51·2	40·0	45·6	+ 5·8	34	6	2	28	•	•	•	•	4	0·14	—	•	•	•	•	Shrewsbury.
a Cirencester	54	18, 23	29	21st	50·3	37·7	44·0	+ 5·5	32	12	2	25	•	•	•	•	4	0·32	- 0·15	•	•	•	•	Hereford.
a Bath	57	18th	31	21st	53·0	41·4	47·2	+ 6·8	39	2	1	28	42·2	•	42·4	•	6	0·67	+ 0·17	0·8	- 2·0	8	-20	Cirencester.
											•	•	44·1	+3·7	43·2	+0·1	6	0·71	+ 0·21	1·0	—	10	—	Bath.
5. ENGLAND, S.E.																								
p Kew	56	23rd	33	21st	52·1	43·7	47·9	+ 7·9	41	0	1	29	44·8	+5·2	45·2	+2·6	—	—	—	•	•	•	•	Canterbury.
a Marlborough	53	18, 22, 23	29	21st	50·3	38·4	44·4	+ 5·5	32	10	1	20	44·5	+5·3	44·2	+2·0	5	0·55	+ 0·17	0·2	- 2·0	2	-20	Kew.
a Margate	53	18, 22, 23	36	21st	51·0	43·7	47·4	+ 7·4	38	0	2	24	•	•	•	•	4	0·92	+ 0·26	0·3	- 2·0	3	-20	Marlborough.
a Wisley, Surrey ..	54	18, 23	32	21st	51·4	42·0	46·7	+ 6·3	33	0	—	—	44·3	+4·2	43·9	+2·7	4	0·33	- 0·03	1·0	- 1·8	10	-18	Margate.
a Swarraton	54	18th	30	21st	50·1	41·0	45·6	+ 6·6	29	3	1	21	44·5	+5·3	43·7	+2·1	5	0·39	—	0·4	—	4	—	Wisley
a Tunbridge Wells ..	53	18th	32	21st	49·7	40·5	45·1	+ 6·1	28	4	1	25	44·7	+4·5	45·0	+2·3	5	1·15	+ 0·61	0·5	—	5	—	Worthing.
a Dungeness	51	23rd	35	21st	49·3	42·6	46·0	+ 6·0	28	0	1	23	43·6	+5·2	•	•	6	1·09	+ 0·56	0·5	- 3·2	5	-21	Tunbridge Wells.
p Hastings.. ..	50	18, 19, 23	35	21st	49·1	43·0	46·1	+ 5·8	29	0	•	•	•	•	•	•	5	0·99	+ 0·62	0·6	—	6	—	Littlestone.
p Southampton	54	18th	34	21st	51·7	43·7	47·7	+ 6·0	40	0	1	26	44·2	•	44·3	•	7	0·94	+ 0·44	*0·4*	*- 2·8*	*4*	*-27*	*Hastings.*
a Ventnor	52	18, 21	38	21st	49·3	44·0	46·7	+ 4·7	33	0	2	20	•	•	•	•	6	0·91	+ 0·40	0·6	- 2·3	6	-23	Southampton.
											•	•	•	•	•	•	6	0·91	+ 0·41	0·6	- 2·6	6	-25	Ventnor.
											0	34	45·3	+4·3	45·4	+1·8	—	—	—	*0·6*	—	*6*	—	*Portsmouth.*
											•	•	44·3	•	45·1	•	—	—	—	0·6	- 2·4	6	-23	Eastbourne.
											•	•	44·1	•	43·7	•	—	—	—	*0·7*	—	*7*	—	*Bournemouth.*
LONDON.											1	27	•	•	43·8	•	—	—	—	*0·5*	*- 2·5*	*5*	*-25*	*Brighton.*
a Westminster	*55*	*18, 22, 23*	*34*	*21st*	*52·9*	*43·4*	*48·2*	*+ 8·2*	*43*	*0*	1	26	•	•	•	•	*5*	*0·54*	*+ 0·15*	*0·1*	*- 1·3*	*1*	*-13*	*Westminster.*
a Greenwich	*55*	*23rd*	*32*	*21st*	*52·7*	*41·9*	*47·3*	*+ 7·1*	*38*	*0*	1	27	•	•	•	•	*6*	*0·61*	*+ 0·23*	*0·6*	*- 1·6*	*6*	*-16*	*Greenwich.*
a Hampstead	*53*	*18, 23*	*34*	*21st*	*50·0*	*41·1*	*45·6*	—	*29*	*3*	1	24	•	•	•	•	*5*	*0·73*	—	*0·1*	—	*1*	—	*Hampstead.*
a Camden Square ..	*56*	*23rd*	*32*	*21st*	*52·3*	*42·0*	*47·2*	—	*36*	*0*	1	30	•	•	•	•	*5*	*0·62*	—	*0·0*	—	*0*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	50	22nd	29	21st	48·4	34·9	40·7	+ 1·7	12	28	•	•	•	•	•	•	6	1·27	+ 0·40	•	•	•	•	
p Glasgow	52	22nd	33	21st	47·4	38·7	43·1	+ 4·1	22	9	1	28	•	•	•	•	5	1·13	+ 0·48	2·1	+ 0·4	21	+ 4	Glasgow.
p Rothesay	51	22, 23	37	18th	48·0	40·6	44·3	+ 4·4	22	4	•	•	•	•	40·5	-1·6	6	1·56	+ 0·71	•	•	•	•	
a Kilmarnock ..	52	18, 22	31	21st	49·7	37·9	43·8	+ 4·8	30	11	•	•	•	•	•	•	4	0·52	—	*2·8*	—	*28*	—	*Kilmarnock.*
a Colmonell	50	22, 24	30	24th	47·7	37·4	42·6	+ 3·9	24	13	2	28	•	•	•	•	5	1·20	+ 0·33	•	•	•	•	
p Dumfries	50	18, 22	32	21, 24	48·3	38·3	43·3	+ 4·1	25	10	2	25	40·1	•	39·6	•	6	0·87	+ 0·14	*1·8*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse	49	20th	30	24th	47·1	35·6	41·4	+ 2·6	14	26	•	•	•	•	•	•	5	0·96	- 0·03	•	•	•	•	
b I. OF MAN.																								
p Douglas	49	22, 23	34	21st	46·6	39·9	43·3	+ 2·9	18	6	2	28	•	•	•	•	5	0·97	+ 0·19	2·8	0·0	28	0	Douglas.
											1	27	41·5	+4·2	40·2	+0·4	—	—	—	*1·6*	—	*16*	—	*Burnley,*
7. *a*, ENGLAND, N.W.											2	29	•	•	•	•	—	—	—	2·0	—	20	—	Hoylake.
p Aspatria	54	22nd	35	24th	49·9	39·3	44·6	+ 6·6	30	8	1	27	41·8	•	41·7	•	4	0·59	+ 0·02	2·8	—	28	—	Aspatria.
p Newton Rigg	53	22nd	29	21st	48·3	37·1	42·7	+ 5·7	25	14	3	20	40·6	+2·4	39·7	+0·3	6	0·59	- 0·11	1·9	- 0·5	19	- 5	Newton Rigg.
p Stonyhurst	54	22nd	37	21, 24	49·7	40·6	45·2	+ 6·6	28	4	1	28	•	•	•	•	6	0·31	- 0·49	1·7	- 0·6	17	- 6	Stonyhurst.
p Blackpool	53	22nd	31	24th	49·6	38·9	44·3	+ 5·0	29	9	•	•	•	•	•	•	4	0·27	- 0·26	2·7	+ 0·2	27	+ 2	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	56	22nd	36	21, 22	50·3	40·9	45·6	+ 5·9	30	3	•	•	•	•	•	•	3	0·05	- 0·38	*1·8*	—	*18*	—	*Liverpool,*
a Hawarden Bridge ..	58	22nd	33	21, 24	51·1	39·6	45·4	+ 4·9	34	7	2	24	41·3	+3·0	39·6	-0·1	3	0·07	- 0·29	*2·1*	*- 0·5*	*21*	*- 5*	*Southport,*
											0	35	42·7	+4·5	41·3	+0·2	—	—	—	*0·7*	—	*7*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	56	22nd	36	21st	51·1	41·3	46·2	+ 4·6	32	2	•	•	•	•	•	•	4	0·15	- 0·33	2·0	- 0·7	20	- 7	Llandudno.
a Holyhead	51	22, 23	37	21, 22	49·1	41·1	45·1	+ 3·5	25	3	•	•	•	•	•	•	4	0·62	+ 0·04	1·3	—	13	—	Aberdovey.
p Bettws-y-Coed ..	55	23rd	31	21st	50·7	40·0	45·4	+ 4·4	32	6	2	30	44·0	+4·2	43·0	+0·6	5	0·90	—	1·6	—	16	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				1·2	—	12	—	Aberystwyth.
a Llangammarch Wells	54	22nd	25	24th	50·4	37·0	43·7	+ 5·2	33	14	2	20	42·7	+3·0	42·9	+0·2	7	0·80	—	0·7	•	7	•	Llangammarch
a Pembroke	54	18th	39	24th	50·1	43·9	47·0	+ 5·0	35	0	•	•	•	•	•	•	7	0·64	+ 0·03	0·6	- 2·4	6	-23	Pembroke.[Wells
p Cardiff	54	22, 23	32	21st	50·3	39·6	45·0	+ 4·7	31	7	2	26	43·2	+3·0	42·3	0·0	7	1·20	+ 0·49	*1·6*	—	*16*	•	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	56	22nd	35	21st	52·7	42·4	47·6	+ 7·1	39	0	1	30	•	•	•	•	6	0·95	+ 0·39	*0·7*	•	*7*	•	*Clifton.*
a Shaftesbury	51	18, 22	35	21st	48·1	40·7	44·4	+ 5·5	22	4	•	•	43·8	•	43·4	•	6	0·90	+ 0·33	•	•	•	—	Shaftesbury.
a Arlington	55	22nd	30	24th	50·1	41·0	45·6	+ 5·9	29	3	•	•	46·8	•	•	•	7	1·31	+ 0·39	1·2	- 1·9	12	-19	Newquay.
a Cullompton	56	21, 22	32	21st	52·0	41·9	47·0	+ 6·1	35	0	1	30	45·4	•	•	•	7	1·27	+ 0·62	0·3	- 2·4	3	-24	Cullompton.
a Portland	51	21st	41	20, 21	49·4	44·0	46·7	+ 4·9	33	0	•	•	•	•	•	•	6	0·39	—	*1·2*	—	*12*	—	*Weymouth.*
p Plymouth	54	18th	38	21, 24	51·6	43·2	47·4	+ 5·0	38	0	0	31	46·7	+4·4	•	•	7	1·90	+ 1·26	0·9	- 2·1	9	-21	Plymouth.
p Falmouth	54	22nd	41	24th	51·0	45·1	48·1	+ 4·8	43	0	•	•	•	•	•	•	7	1·88	+ 1·05	1·4	- 1·9	14	-19	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	53	22nd	36	21, 22	47·0	38·6	42·8	+ 1·8	20	10	•	•	•	•	•	•	5	1·17	+ 0·64	•	•	•	•	
a Blacksod Point ..	54	22nd	35	19th	47·7	38·4	43·1	+ 0·4	23	10	•	•	•	•	•	•	6	1·58	+ 0·71	•	•	•	•	
p Markree Castle ..	55	22nd	28	21st	50·3	33·1	41·7	+ 1·3	23	37	3	24	41·9	•	43·1	•	7	2·28	+ 1·53	2·4	- 0·0	24	- 0	Markree Castle.
a Birr Castle	60	22nd	31	21th	50·9	40·3	45·6	+ 4·9	32	5	•	•	•	•	•	•	5	2·16	+ 1·64	*3·3*	+ *0·8*	*33*	+ *8*	*Birr Castle.*
b, East .. { *p* Armagh	56	22nd	30	21st	49·1	36·0	42·6	+ 2·5	29	17	2	22	41·5	+0·8	42·2	-0·3	5	1·86	+ 1·35	2·2	- 0·2	22	- 2	Armagh.
a Donaghadee	51	22nd	32	21st	48·1	38·6	43·4	+ 2·4	24	10	•	•	•	•	•	•	4	1·32	+ 0·77	•	•	•	•	
											2	19	43·4	+1·6	43·8	+0·2	—	—	•	•	•	•	•	Trinity Coll.
10. IRELAND, S.											2	21	•	•	•	•	—	—	•	2·6	- 0·2	26	- 2	Phœnix Park.
a. East .. { *p* Dublin, City	58	22nd	35	21, 24	50·9	40·7	45·8	+ 3·3	32	4	0	31	•	•	•	•	6	0·96	+ 0·47	•	•	•	•	Dublin City.
a Kilkenny	55	21, 22	31	24th	51·0	39·7	45·4	+ 4·3	33	6	•	•	•	•	•	•	7	1·16	+ 0·55	•	•	•	•	
a Waterford	53	22nd	35	21st	50·6	39·9	45·3	+ 3·5	32	6	•	•	•	•	•	•	5	1·14	+ 0·38	•	•	•	•	
b, West .. { *a* Birr Castle	60	22nd	31	24th	50·9	40·3	45·6	+ 4·9	32	5	•	•	•	•	•	•	5	2·16	+ 1·64	3·3	+ 0·8	33	+ 8	Birr Castle.
a Foynes	58	22nd	37	21, 24	50·1	40·3	45·2	+ 2·4	30	5	•	•	•	•	•	•	6	1·24	+ 0·51	•	•	•	•	
a Cahir	55	21, 22	30	24th	51·0	40·0	45·5	+ 3·8	33	6	•	•	•	•	•	•	6	1·23	—	•	•	•	•	
a Killarney	56	23rd	33	24th	50·8	39·7	45·3	+ 2·5	33	7	•	•	•	•	•	•	6	2·60	+ 1·40	•	•	•	•	
a Valencia	55	22nd	37	21st	50·3	41·4	45·9	+ 1·5	30	2	•	•	•	•	•	•	7	1·75	+ 0·57	2·9	+ 0·1	29	+ 1	Valencia.
a Roche's Point ..	52	23rd	36	24th	49·4	42·0	45·7	+ 2·2	26	0	•	•	•	•	•	•	7	1·23	+ 0·43	2·4	•	24	•	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	21, 22	43	24th	52·4	46·4	49·4	+ 4·2	52	0	•	•	•	•	•	•	7	0·96	+ 0·33	1·3	- 2·0	13	-20	Scilly.
a Jersey, St. Aubins ..	56	18, 21, 22	41	21st	54·1	45·3	49·7	+ 6·6	54	0	•	•	•	•	•	•	6	1·66	+ 1·12	1·0	- 2·5	10	-25	St. Heliers.
a Guernsey (Villa Carey)	56	21st	39	20th	52·3	45·9	49·1	+ 5·3	50	0	1	29	47·0	+3·9	46·6	+1·8	7	1·71	+ 1·08	2·3	- 1·7	22	-11	Guernsey.*

Additional Sunshine Means :—*Bognor, 0·6 hrs. 6%; Newcastle (Pendower), 2·9 hrs. 39%; Ramsgate, 1·0 hrs. 10%; Rhyl, 2·2 hrs. 22%; Salcombe, 1·2 hrs. 12%; Tenby, 1·0 hrs. (-2·1) 10% (- 20%); Torquay, 1·6 hrs. (-1·5) 16% (-14%).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, February 24th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	42	42	42·0	-0·1	SCOTLAND, W. ..	Lamlash	44	43	43·4	-0·4
	Kirkwall	43	43	43·0	+2·4		Ballantrae	46	43	44·5	+1·7
	Wick	44	44	44·0	+0·7	ENGLAND, N.W. ..	Port Erin	46	45	45·2	+0·9
SCOTLAND, E. ..	Cromarty	40	39	39·8	+0·5		Newquay	49	46	47·7	+1·5
	Pennan Bay	45	43	43·5	+3·3	ENGLAND, S.W. ..	Scilly	47	45	45·9	—
	Aberdeen, Cove Bay	43	42	42·5	+2·0		Plymouth‡	49	47	47·9	+1·7
SCOTLAND, N.E. ..	Burnmouth, Berwick	38	38	38·0	-1·3		Salcombe	49	47	48·1	+2·8
	Scarborough	45	40	42·9	+2·5	IRELAND, N.W. ..	Sheephaven	45	44	44·6	-0·1
ENGLAND, E. ..	Shipwash Lightship	46	44	45·0	+5·2		Teelin	45	42	43·5	-1·0
ENGLAND, S.E. ..	Margate‡	45	43	43·9	+3·5	IRELAND, S.W. ..	Cleggan	43	40	41·7	-2·8
	Eastbourne‡	46	44	44·6	+4·2		Seafield	49	43	47·0	+1·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked **S** are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

EIGHTH WEEK—February 18th to February 24th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	54	28	46·7	37·0	41·9	+ 4·0	13	+ 6	21	− 16	5	+ 1	1·34	+0·40	1·6	−0·7	17	− 7
Eastern.																		
1. SCOTLAND, EAST ...	55	27	48·0	36·6	42·3	+ 5·4	25	+ 17	15	− 28	5	+ 2	1·08	+0·58	2·0	−0·7	21	− 7
2. ENGLAND, N.E.	56	31	50·2	39·0	44·6	+ 6·1	31	+ 22	8	− 26	4	0	0·53	+0·20	2·5	−0·2	25	− 2
3. ENGLAND, EAST ...	56	30	51·0	40·6	45·8	+ 7·4	32	+ 20	4	− 33	4	+ 1	0·59	+0·26	1·5	−1·4	15	−14
4. MIDLAND COUNTIES ...	57	29	51·1	39·9	45·5	+ 7·0	34	+ 21	6	− 32	4	+ 1	0·42	+0·02	1·4	−1·1	14	−11
5. ENGLAND, S.E.	56	29	50·4	42·3	46·4	+ 6·6	31	+ 17	0	− 30	5	+ 3	0·85	+0·42	0·5	−2·5	5	−24
Western.																		
6. SCOTLAND, WEST ...	52	29	47·7	37·9	42·8	+ 3·9	23	+ 14	11	− 21	5	+ 1	1·06	+0·23	2·5	+0·3	25	+ 3
7. ENGLAND, N.W.	58	29	50·0	39·9	44·9	+ 5·5	29	+ 18	6	− 24	4	0	0·39	−0·13	2·0	−0·6	20	− 6
8. ENGLAND, S.W.	56	25	50·6	41·9	46·3	+ 5·3	31	+ 14	0	− 24	7	+ 3	1·12	+0·44	0·9	−2·0	9	−20
9. IRELAND, NORTH ...	60	28	48·9	37·5	43·2	+ 2·7	27	+ 13	13	− 12	5	+ 1	1·73	+1·10	2·3	−0·3	23	− 3
10. IRELAND, SOUTH ...	60	30	50·6	40·4	45·5	+ 3·4	31	+ 10	4	− 16	6	+ 3	1·50	+0·74	2·8	−0·1	28	− 1
11. ENGLISH CHANNEL ...	56	39	52·9	45·9	49·4	+ 5·4	52	+ 29	0	− 10	7	+ 3	1·44	+0·84	1·5	−2·1	15	−20

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 12 Weeks, December 3rd, 1911, to February 24th, 1912.

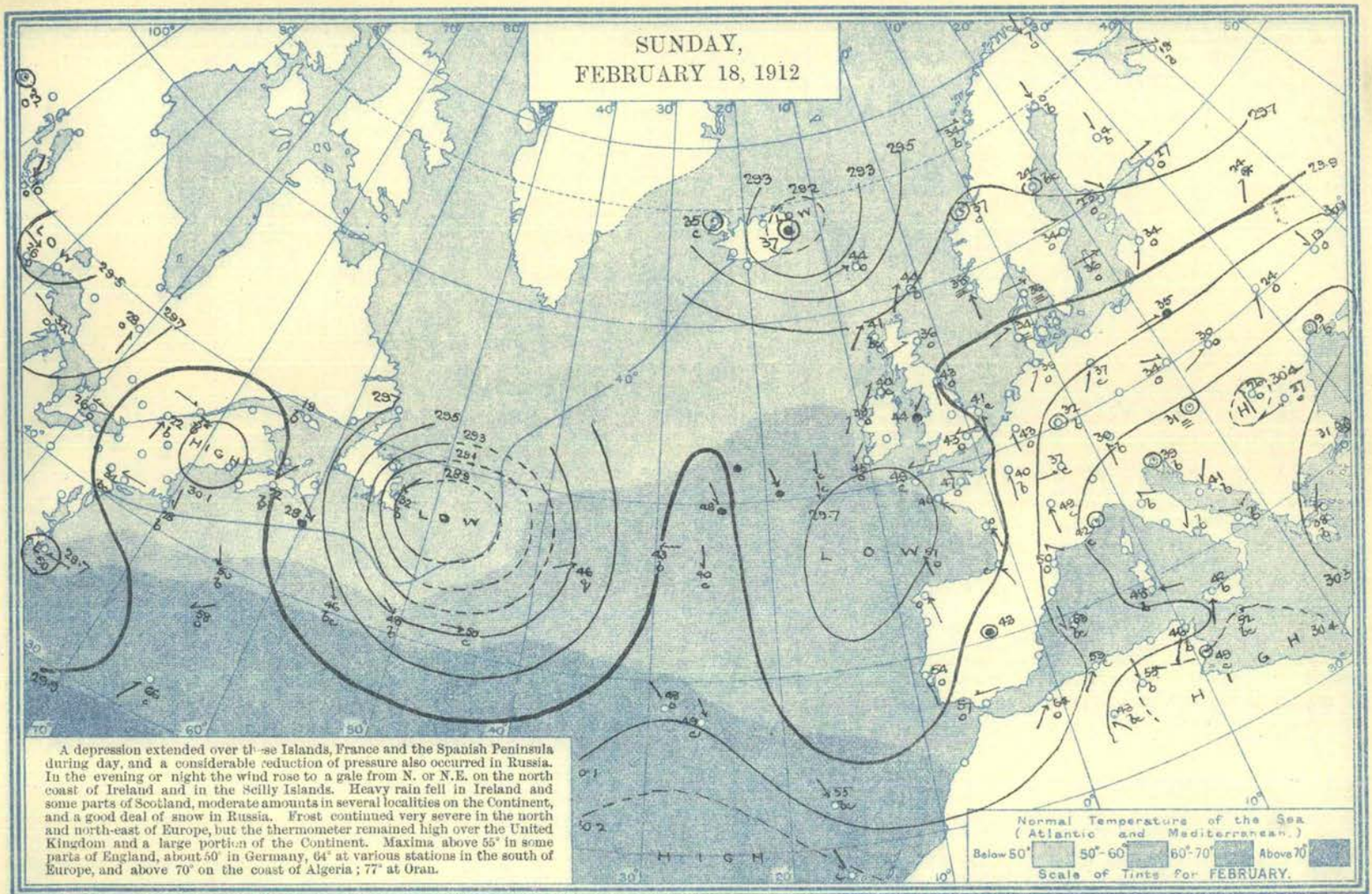
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	100	+ 12	358	− 58	62	0	11·59	−3·76	1·3	+0·2	18	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	56	−5	*	*	*	*	80	− 11	444	− 48	60	+12	9·07	+1·95	1·3	−0·3	17	− 4
2. ENGLAND, N.E	56	10	*	*	*	*	112	+ 7	353	− 40	60	+17	7·72	+2·66	1·4	−0·3	17	− 4
3. ENGLAND, EAST ...	57	14	*	*	*	*	163	+ 47	262	−183	59	+14	7·90	+3·14	1·4	−0·5	17	− 6
4. MIDLAND COUNTIES ...	57	9	*	*	*	*	169	+ 37	337	−110	57	+13	10·20	+4·32	1·3	−0·3	16	− 4
5. ENGLAND, S.E.	56	13	*	*	*	*	217	+ 51	206	−125	57	+13	11·56	+5·26	1·3	−0·5	15	− 6
Western.																		
6. SCOTLAND, WEST ...	55	12	*	*	*	*	126	− 2	306	− 22	60	+ 5	14·90	+2·03	1·3	−0·1	17	− 1
7. ENGLAND, N.W.	59§	7	*	*	*	*	163	+ 31	272	− 49	58	+ 8	10·70§	+2·57§	1·5	0·0	19	0
8. ENGLAND, S.W.	57	9	*	*	*	*	252	+ 38	177	− 68	66	+15	15·47	+5·10	1·6	−0·2	19	− 2
9. IRELAND, NORTH ...	60	15	*	*	*	*	204	+ 39	230	− 49	54	− 3	11·70	+2·39	1·6	0·0	20	0
10. IRELAND, SOUTH ...	60	13	*	*	*	*	264	+ 8	181	− 31	66	+13	15·13	+4·20	1·7	−0·2	21	− 2
11. ENGLISH CHANNEL ...	57	27	*	*	*	*	439	+114	41	− 48	61	+ 4	12·38	+3·58	2·0	−0·3	23	− 3

THE YEAR.—Aggregates, &c., for the Period of 8 Weeks, December 31st, 1911, to February 24th, 1912.

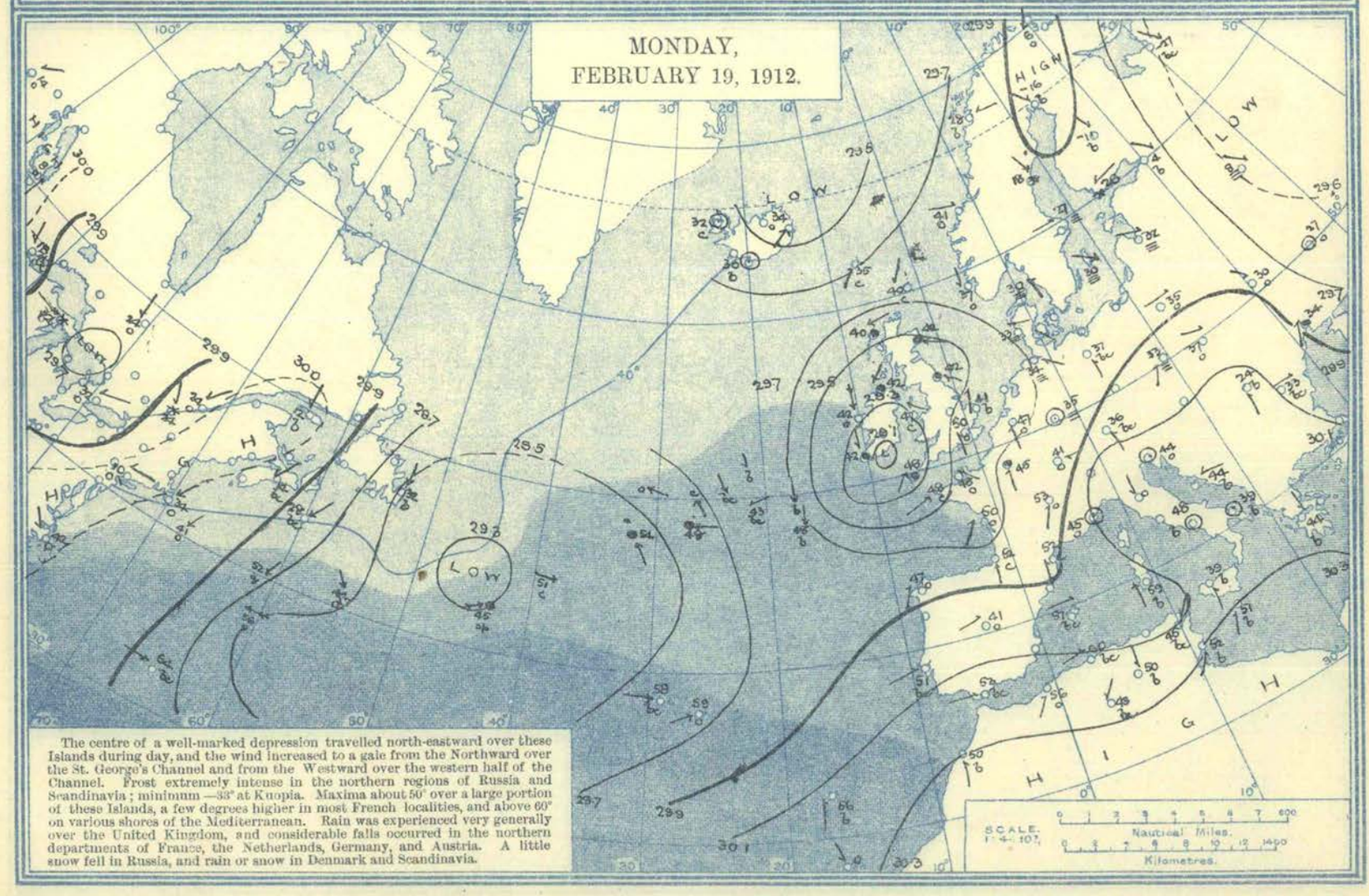
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	47	− 7	290	− 4	37	− 4	5·85	−4·20	1·5	+0·2	19	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	56	−5	*	*	*	*	43	− 18	338	+ 2	38	+ 7	4·90	+0·42	1·4	−0·5	17	− 6
2. ENGLAND, N.E.	56	10	*	*	*	*	62	− 8	270	+ 2	37	+ 8	4·33	+1·29	1·3	−0·6	16	− 7
3. ENGLAND, EAST ...	57	14	*	*	*	*	84	+ 7	207	− 95	35	+ 6	4·12	+1·10	1·3	−0·8	15	− 9
4. MIDLAND COUNTIES ...	57	9	*	*	*	*	84	− 6	272	− 28	33	+ 4	5·35	+1·59	1·2	−0·6	14	− 7
5. ENGLAND, S.E.	56	13	*	*	*	*	109	+ 6	170	− 60	33	+ 5	5·33	+1·34	1·2	−0·8	14	− 9
Western.																		
6. SCOTLAND, WEST ...	54	12	*	*	*	*	61	− 19	253	+ 21	33	− 3	7·45	−0·58	1·4	−0·2	17	− 2
7. ENGLAND, N.W.	59§	7	*	*	*	*	83	0	231	+ 9	33	0	4·77§	−0·35§	1·7	0·0	20	0
8. ENGLAND, S.W.	56	9	*	*	*	*	134	0	159	− 16	40	+ 7	7·29	+0·99	1·6	−0·4	18	− 5
9. IRELAND, NORTH ...	60	15	*	*	*	*	122	+ 12	170	− 22	29	− 8	5·95	+0·07	1·8	0·0	21	0
10. IRELAND, SOUTH ...	60	13	*	*	*	*	164	− 1	130	− 16	39	+ 5	7·79	+0·98	1·8	−0·2	21	− 2
11. ENGLISH CHANNEL ...	56	27	*	*	*	*	261	+ 65	41	− 29	34	− 3	5·74	+0·44	2·1	−0·4	23	− 4

NOTES ON TABLE IV.

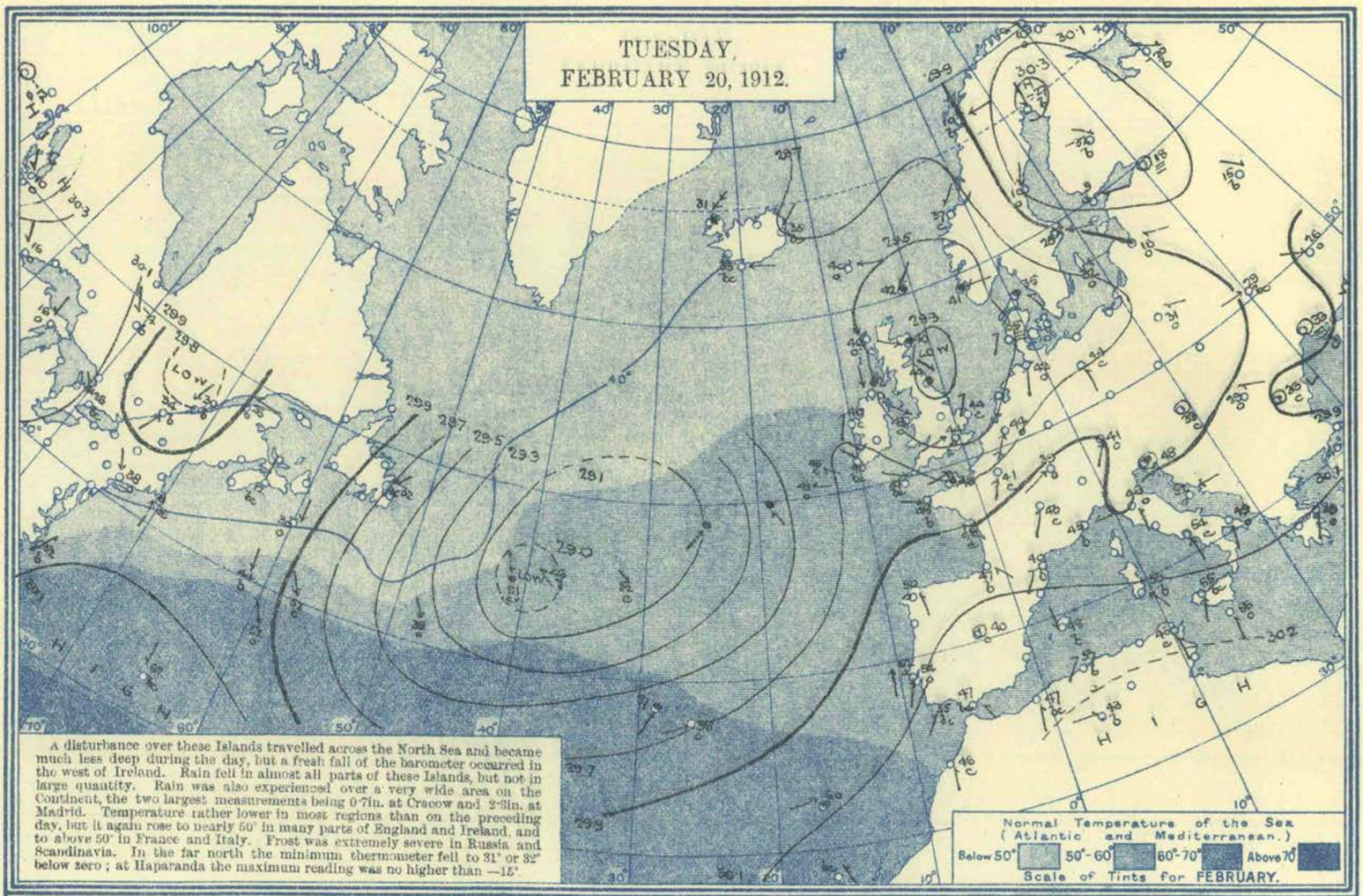
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for Week ended February 17th altered owing to further information.



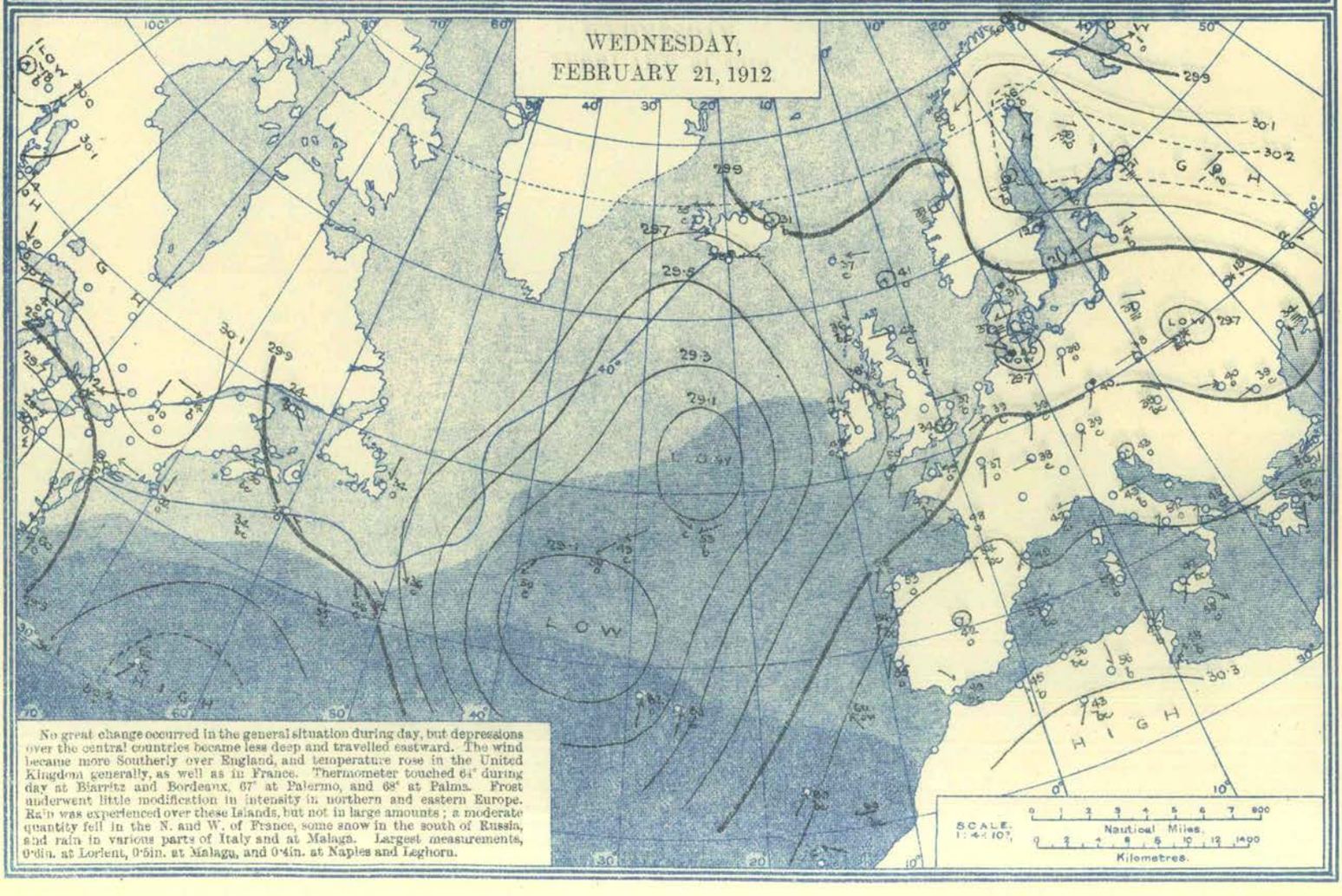
A depression extended over these Islands, France and the Spanish Peninsula during day, and a considerable reduction of pressure also occurred in Russia. In the evening or night the wind rose to a gale from N. or N.E. on the north coast of Ireland and in the Scilly Islands. Heavy rain fell in Ireland and some parts of Scotland, moderate amounts in several localities on the Continent, and a good deal of snow in Russia. Frost continued very severe in the north and north-east of Europe, but the thermometer remained high over the United Kingdom and a large portion of the Continent. Maxima above 55° in some parts of England, about 50° in Germany, 64° at various stations in the south of Europe, and above 70° on the coast of Algeria; 77° at Oran.



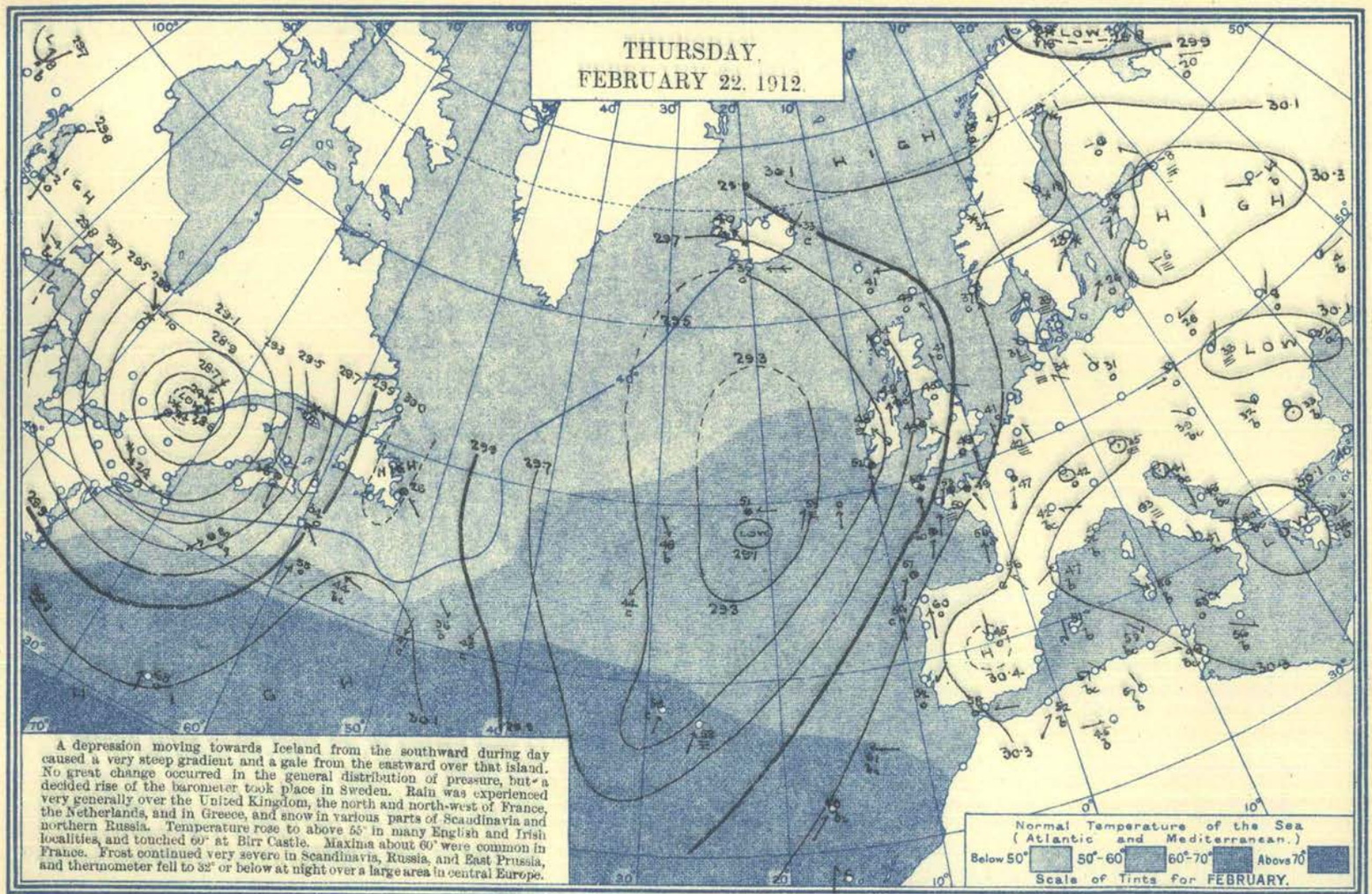
The centre of a well-marked depression travelled north-eastward over these Islands during day, and the wind increased to a gale from the Northward over the St. George's Channel and from the Westward over the western half of the Channel. Frost extremely intense in the northern regions of Russia and Scandinavia; minimum —33° at Kuopia. Maxima about 50° over a large portion of these Islands, a few degrees higher in most French localities, and above 60° on various shores of the Mediterranean. Rain was experienced very generally over the United Kingdom, and considerable falls occurred in the northern departments of France, the Netherlands, Germany, and Austria. A little snow fell in Russia, and rain or snow in Denmark and Scandinavia.

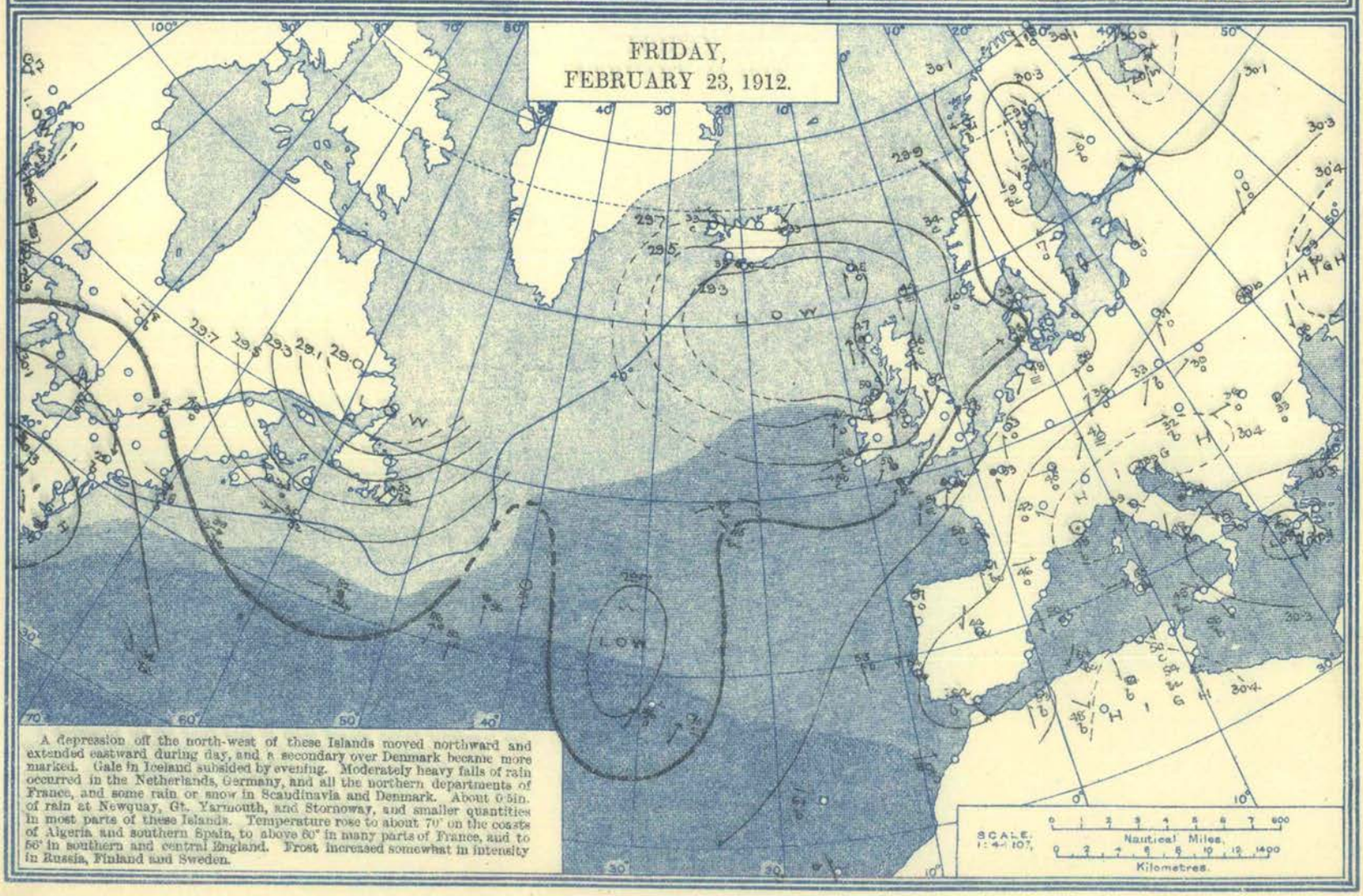


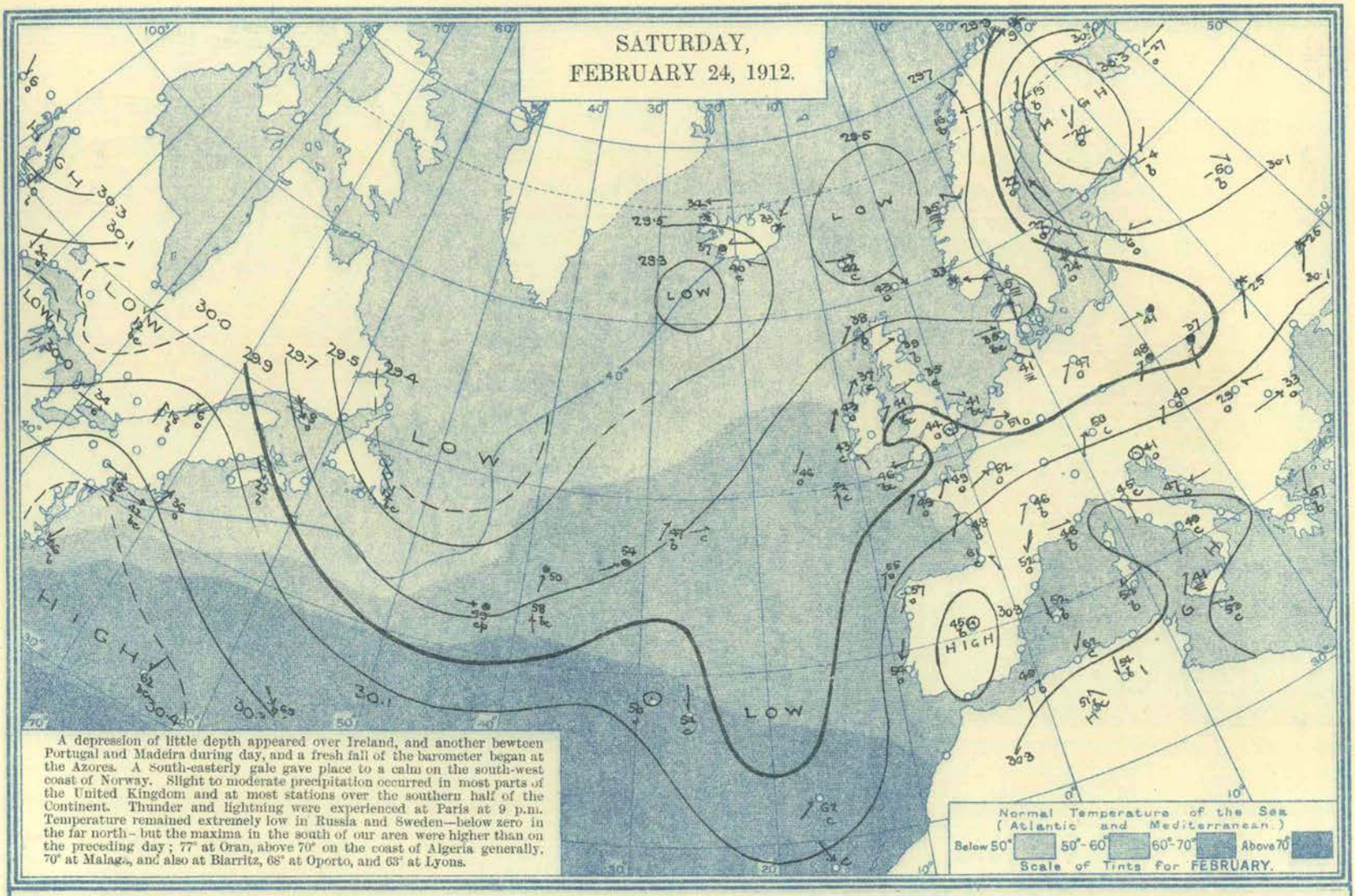
A disturbance over these Islands travelled across the North Sea and became much less deep during the day, but a fresh fall of the barometer occurred in the west of Ireland. Rain fell in almost all parts of these Islands, but not in large quantity. Rain was also experienced over a very wide area on the Continent, the two largest measurements being 0·7in. at Cracow and 2·3in. at Madrid. Temperature rather lower in most regions than on the preceding day, but it again rose to nearly 50° in many parts of England and Ireland, and to above 50° in France and Italy. Frost was extremely severe in Russia and Scandinavia. In the far north the minimum thermometer fell to 31° or 32° below zero; at Haparanda the maximum reading was no higher than —15°.



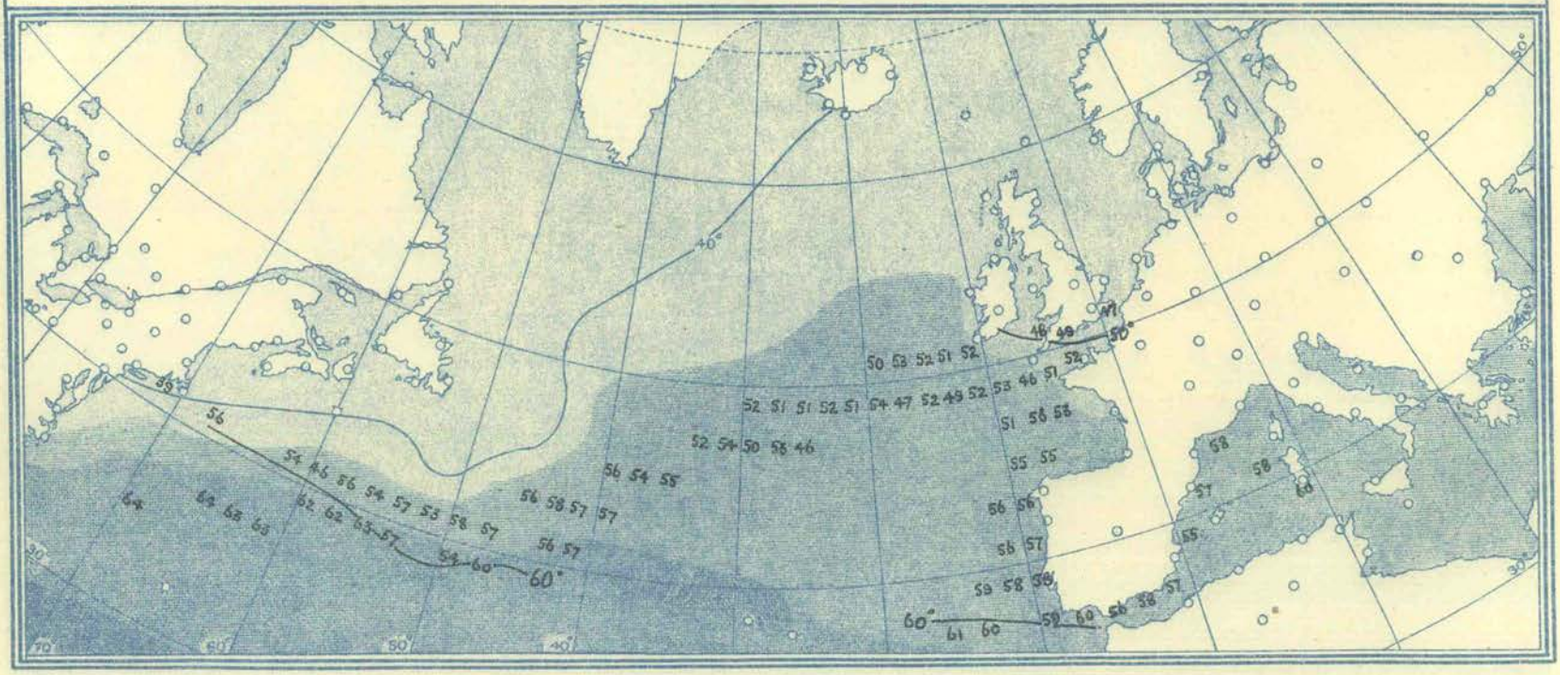
No great change occurred in the general situation during day, but depressions over the central countries became less deep and travelled eastward. The wind became more Southerly over England, and temperature rose in the United Kingdom generally, as well as in France. Thermometer touched 64° during day at Biarritz and Bordeaux, 67° at Palermo, and 68° at Palma. Frost underwent little modification in intensity in northern and eastern Europe. Rain was experienced over these Islands, but not in large amounts; a moderate quantity fell in the N. and W. of France, some snow in the south of Russia, and rain in various parts of Italy and at Malaga. Largest measurements, 0·6in. at Lorient, 0·5in. at Malaga, and 0·4in. at Naples and Leghorn.


THURSDAY,
FEBRUARY 22, 1912.
A depression moving towards Iceland from the southward during day caused a very steep gradient and a gale from the eastward over that island. No great change occurred in the general distribution of pressure, but a decided rise of the barometer took place in Sweden. Rain was experienced very generally over the United Kingdom, the north and north-west of France, the Netherlands, and in Greece, and snow in various parts of Scandinavia and northern Russia. Temperature rose to above 55° in many English and Irish localities, and touched 60° at Birr Castle. Maxima about 60° were common in France. Frost continued very severe in Scandinavia, Russia, and East Prussia, and thermometer fell to 32° or below at night over a large area in central Europe.
Normal Temperature of the Sea (Atlantic and Mediterranean.)
Below 50°
50°-60°
60°-70°
Above 70°
Scale of Tints for FEBRUARY.


FRIDAY,
FEBRUARY 23, 1912.
A depression off the north-west of these Islands moved northward and extended eastward during day, and a secondary over Denmark became more marked. Gale in Iceland subsided by evening. Moderately heavy falls of rain occurred in the Netherlands, Germany, and all the northern departments of France, and some rain or snow in Scandinavia and Denmark. About 0·5in. of rain at Newquay, Gt. Yarmouth, and Stornoway, and smaller quantities in most parts of these Islands. Temperature rose to about 70° on the coasts of Algeria and southern Spain, to above 60° in many parts of France, and to 56° in southern and central England. Frost increased somewhat in intensity in Russia, Finland and Sweden.
SCALE.
Nautical Miles.
Kilometres.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 24TH FEBRUARY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* | No. 9. | NINTH WEEK, SUNDAY, FEBRUARY 25TH, TO SATURDAY, MARCH 2ND, 1912. | *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The general condition continued very unsettled, and slight or moderate falls of rain occurred on most days. In the extreme north and north-west, however, the rain was sometimes heavy locally.

Temperature was much above the average, the excess amounting to 10° in England E., about 9° in England N.E., S.E. and the Midland Counties, and between 6° and 8° elsewhere. The highest of the maxima were recorded at most stations on February 27th or 28th. At a number of the English Stations the thermometer rose to 60°, in Ireland to 58°, and in Scotland to between 55° and 58°. The lowest of the minima, which occurred on February 25th or 26th, ranged from 28° in Scotland E. and Ireland N. to 33° in England S.E., and Scotland W., and to 37° in the English Channel. On the grass the thermometer fell to 23° at Rauceby, and 24° at Crathes and Markree Castle. At 1 foot below the surface of the ground the temperature was considerably above the average at nearly all stations, and at every station except Rothesay it was also above it at a depth of 4 feet.

Mean Temperature of the Sea. Except on the coast of Ireland and in one or two other localities the water was warmer than during the corresponding week of last year, and its temperature was also above the average. The mean values ranged from about 49° at Plymouth and Newquay and 46° at Margate, Seafield, and Port Erin to 39° at Burnmouth.

Rainfall exceeded the average in Ireland, Scotland N. and W., and the western and southern parts of England, but was less elsewhere. In Scotland N. and W. and in England N.W. the excess was rather large. At Glencarron on the 25th the fall equalled 1·27 in., and at Poltalloch on the 27th 1·02 in.

Bright Sunshine was less than the normal in all districts, the values ranging from less than an hour per day at Tottenham and Dumfries to 4 hours per day at Nairn. The percentage of the possible duration ranged from 32 in the English Channel and 29 in Ireland S. to 16 in Scotland W.

Barometer and Wind. The pressure distribution over these Islands and the surrounding regions was favourable for a Southerly to South-Westerly wind current, and as the gradient was sometimes steep the winds from those points were occasionally very strong in force. Gales were experienced on a few parts of the west and north-west coasts on Monday, and on the east and north-east coasts on Tuesday. In the latter half of the week gales occurred rather frequently on the more exposed parts of our west coasts, and on Saturday they extended eastwards along the Channel and southern counties.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 35.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Heavy	Moderate	Light	Moderate	Moderate	Moderate	Heavy	Heavy	Heavy	Moderate	Heavy	Moderate
	Sunshine ...	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 13 weeks from Dec. 3rd, 1911.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 * 10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

PAST SEASONS.

WINTER, 1910–11. Dec. 4th–March 4th. 13 weeks.	Warmth ...	7 * 0	8 * 1	7 * 2	7 * 1	7 * 1	6 * 1	6 * 1	7 * 2	6 * 2	7 * 2	5 * 5	5 * 3
	Rainfall ...	4 * 5	2 * 5	3 * 5	5 * 3	4 * 5	4 * 5	5 * 4	4 * 4	4 * 5	4 * 7	3 * 7	3 * 5
	Sunshine ...	4 * 2	7 * 3	5 * 4	3 * 3	5 * 2	4 * 3	6 * 5	6 * 3	4 * 3	3 * 3	3 * 3	2 * 5
SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5

(23313—24.) Wt. 113—4. 450 3/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from Average.	Mean.	Difference from Average.								
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hrs.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*50*	*29th*	*34*	*28th*	*47·0*	*39·4*	*43·2*	—	*19*	7			41·5				7	*1·15*	—	*1·7*	—	17	—	*Baltasound.*
a Islands .. *a* Lerwick	50	29th	36	28, 29	47·1	39·9	43·5	+ 5·2	19	8							7	0·90	—	2·3	- 0·2	23	- 2	Deerness.
a Stornoway	50	28th	35	28th	48·3	39·7	44·0	+ 4·9	24	6							7	2·84	+ 1·85	1·2	- 1·5	12	-14	Stornoway.
a Castlebay, Barra Isd.	*49*	*26, 28*	*41*	*28th*	*48·0*	*43·3*	*45·7*	+ *4·1*	*26*	0							7	*1·44*	—	*1·1*	—	11	—	*Castlebay.*
a Wick	51	28, 29	34	28th	48·3	38·7	43·5	+ 5·3	24	9							5	0·30	- 0·22					
b, Main- *p* Strathpeffer ..	55	29th	30	25th	51·4	40·2	45·8	+ 8·0	34	5							6	0·27	- 0·36	3·6	+ 1·1	35	+10	Strathpeffer.
land. *p* Glencarron ..	53	29th	36	25th	49·9	39·5	44·7	+ 7·6	29	7							7	3·33	+ 1·56					
p Fort Augustus..	54	29th	33	25th	50·3	40·6	45·5	+ 7·2	30	4							7	1·54	+ 0·59	1·5	- 0·4	15	- 4	Fort Augustus.
p Fort William ..	54	1st	36	25th	50·1	40·4	45·3	+ 5·9	30	4							7	2·89	+ 1·22					
1. SCOTLAND, E.																								
p Gordon Castle.. S	58	28th	34	25th	53·3	41·7	47·5	+ 8·6	40	1	1	24	40·5	+4·0	39·4	+1·9	—	—	—	2·8	—	27	—	Crathes S.
a Nairn	55	28th	30	25th	51·6	37·4	44·5	+ 6·2	37	13							2	0·20	- 0·32	*3·5*	—	*34*	—	*Gordon Castle.*
a Aberdeen ..	54	29th	33	25, 26	50·6	39·6	45·1	+ 6·4	32	7					40·8	+1·7	7	0·21	- 0·24	4·0	—	39	—	Nairn.
a Balmoral ..	52	28th	28	25th	49·6	38·1	43·9	+ 9·4	30	11	1	25					5	0·32	- 0·21	2·7	- 0·4	26	- 4	Aberdeen.
p Crieff	57	29, 2	35	25th	49·3	40·4	44·9	+ 6·2	27	4							4	0·63	- 0·01					Balmoral.
a Leith	57	28th	36	26th	53·0	42·7	47·9	+ 8·0	41	0							6	1·28	+ 0·51	1·7	—	17	—	Balruddery.
p West Linton .. S	52	29th	32	25th	48·7	39·9	44·3	+ 7·3	25	6							6	0·13	- 0·22					
p Marchmont .. S	53	29th	32	25th	49·1	40·7	44·9	+ 7·2	26	4	1	29	40·4	+3·8			7	0·64	—	*1·4*	—	*14*	—	*West Linton.*
																	6	0·51	- 0·02	1·9	- 1·0	18	- 9	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	55	29th	30	25th	51·9	40·6	46·3	+ 7·5	36	4	1	27	41·8	+5·1	41·1	+2·1	5	0·27	- 0·25	2·1	—	20	—	Cockle Park.
a Shields	56	28, 29, 2	34	25th	52·9	41·3	47·1	+ 7·5	39	2							5	0·13	- 0·21	*1·7*	- *0·5*	*16*	- *5*	*Newcastle.*
p Durham	54	28th	34	25th	51·4	42·1	46·8	+ 8·4	34	0	?	?					3	0·16	- 0·19	2·0	- 0·9	19	- 8	Durham.
a, North .. *p* Rounton	57	28th	33	25th	52·2	41·6	46·9	+ 8·7	36	1	1	28	41·9				4	0·32	- 0·05					Rounton.
a West Witton ..	*55*	*28th*	*34*	*25th*	*51·0*	*41·1*	*46·1*	—	*32*	*3*	1	27	41·5		39·5		*6*	*1·06*	—					*West Witton.*
p Scarborough ..	58	28, 29	36	26, 27	53·4	42·3	47·9	+ 8·0	41	0							3	0·20	- 0·23	2·3	—	22	—	Scarborough.
p York	60	28th	34	26th	54·0	42·1	48·1	+ 8·6	43	0			42·3	+4·0	41·9	+1·5	4	0·26	- 0·12	1·4	- 1·2	14	-11	York.
a Spurn Head	57	28th	36	25, 26	52·1	40·3	46·2	+ 6·6	37	5	1	29	43·3	+5·1	42·0	+1·3	2	0·12	- 0·18	*1·0*	—	*9*	—	*Hull.*
b, South .. *a* Lincoln	59	28th	34	26th	51·7	41·6	48·2	+ 8·8	45	1			42·4	+4·7	41·7	+1·8	2	0·07	- 0·30					Lincoln.
a Fulbeck	58	28th	36	26th	54·0	42·4	48·2	+ 8·5	43	0	2	23	44·8	+5·6	43·3	+1·5	4	0·04	- 0·33	2·4	—	23	—	Rauceby.
																	—	—	—	2·1	—	20	—	Skegness.
3. ENGLAND, E.											0	34	44·1	+5·3	43·6	+2·8	—	—	—	*1·9*	—	*18*	—	*Lowestoft.*
p Cromer	60	28th	36	25th	54·7	42·3	48·5	+10·0	46	0							6	0·09	—	2·5	—	24	—	Cromer.
p Hillington ..	59	28th	32	26th	54·4	41·9	48·2	+ 9·1	44	0	1	26					2	0·05	- 0·37	2·1	- 0·9	20	- 9	Hillington.
a, North .. *a* Yarmouth ..	60	28th	39	25, 26, 27	53·1	42·6	47·9	+ 9·1	41	0			44·4	+5·7	44·4	+2·6	4	0·17	- 0·17	2·1	—	20	—	Yarmouth
a Norwich	60	28th	36	26th	54·4	43·1	48·8	+ 9·8	48	0	1	27	44·5				4	0·10	—	*1·8*	—	*17*	—	*Norwich.*
p Geldeston	60	28th	37	26th	54·9	43·7	49·3	+ 9·7	51	0							4	0·14	- 0·20	1·7	- 1·5	16	-14	Geldeston.
p Cambridge	60	28th	35	26th	55·4	44·9	50·2	+10·4	57	0	0	35	45·9	+6·7	44·8	+3·2	1	0·02	- 0·30	2·5	- 0·7	24	- 7	Cambridge.
a Felixstowe ..	*56*	*27th*	*38*	*26th*	*52·3*	*43·0*	*47·7*	+ *8·0*	*40*	*0*							*4*	*0·26*	—	*2·7*	—	*26*	—	*Felixstowe.*
a Clacton-on-Sea ..	56	27th	36	26th	51·3	43·0	47·2	+ 7·7	36	0	1	30	45·8	+5·5	45·8	+2·7	3	0·27	—	1·8	—	17	—	Clacton.
b, South .. *a* Rothamsted ..	57	28th	32	26th	53·7	42·4	48·1	+ 9·1	43	0							5	0·25	- 0·18	1·6	- 1·4	15	-13	Rothamsted.
a Shoeburyness ..	*57*	*28th*	*39*	*26th*	*53·9*	*44·0*	*49·0*	+ *8·6*	*49*	*0*	1	28	46·7	+6·6			*4*	*0·32*	+ *0·04*	*2·2*	—	*21*	—	*Southend.*
p Tottenham	58	28th	38	26th	54·4	47·1	50·8	+10·6	62	0	0	33			45·4	+2·9	3	0·41	—	0·9	—	9	—	Tottenham.
4. MIDLAND COUNTIES.											1	29	42·1	+4·4	40·7	+1·0	—	—	—	*2·8*	—	27	—	*Huddersfield.*
a Harrogate	55	28th	36	25, 26	51·0	41·9	46·5	+ 8·5	32	0	1	30	41·7	+3·6	41·1	+1·7	6	0·74	+ 0·24	2·0	—	19	—	Harrogate.
a Bawtry	60	28th	33	25th	54·9	43·0	49·0	+ 9·4	49	0	2	25	43·2		42·3		3	0·25	- 0·11	2·1	- 0·4	20	- 4	Worksop.
p Buxton	*53*	*29th*	*31*	*25th*	*49·6*	*40·3*	*45·0*	+ *8·6*	*28*	*5*	2	25	41·5	+4·6	41·3	+1·2	*6*	*0·49*	- *0·43*	*1·9*	—	*18*	—	*Buxton.*
a East .. *a* Nottingham	58	28th	34	25th	54·7	41·4	48·1	+ 8·7	45	2	1	30	44·3	+6·8	41·6	+2·7	4	0·10	- 0·28	2·1	—	20	—	Nottingham.
p Birmingham, Edgbn.	56	28th	36	26th	52·7	43·1	47·9	+ 8·7	41	0	1	30	44·3	+4·7	44·2	+1·2	5	0·49	+ 0·09	1·3	—	12	—	Birmingham.
a Raunds	59	28th	34	26th	55·6	43·1	49·4	+10·0	52	0	1	30	43·6		43·6		5	0·11	—					Raunds.
a Oxford	58	28th	35	26th	54·4	43·3	48·9	+ 8·6	48	0	1	30					5	0·23	- 0·15	1·7	- 1·2	16	-12	Oxford.
											1	30	42·5	+4·9	41·3	+1·2	—	—	—	3·2	—	31	—	Sheffield.
a Cheadle	55	29th	33	26th	51·5	40·5	46·0	+ 7·6	34	4	2	25					3	0·30	- 0·20					Cheadle.
p Shrewsbury ..	59	28th	30	25th	53·7	42·7	48·2	+ 7·7	43	0	0	32					5	0·19	—					Shrewsbury.
b, West .. *a* Hereford ..	57	28th	34	25th	53·7	42·9	48·3	+ 8·1	44	0	1	28					7	0·73	+ 0·27					Hereford.
a Cirencester ..	58	29th	32	26th	54·6	41·1	47·9	+ 8·9	45	3	0	31	44·6		43·8		5	0·43	- 0·06	1·9	- 1·2	18	-11	Cirencester.
a Bath	59	27, 28	32	26th	56·0	44·1	50·1	+ 9·4	57	0			46·3	+5·9	44·8	+4·5	5	0·49	- 0·01	2·3	—	22	—	Bath.
5. ENGLAND, S.E.											0	34	47·0	+7·2	46·1	+3·4	—	—	—					Canterbury.
p Kew	58	28th	36	26th	54·4	46·4	50·4	+10·0	59	0	1	25	46·7	+7·2	45·4	+2·9	5	0·38	0·00	1·8	- 0·8	17	- 7	Kew.
a Marlborough ..	56	28th	33	26th	52·9	42·1	47·5	+ 8·3	39	0	1	26					6	0·67	+ 0·11	1·4	- 1·2	13	-12	Marlborough.
a Margate	57	27th	39	26th	54·3	44·7	49·5	+ 9·2	53	0	—	—	46·4	+6·3	45·9	+4·4	4	0·13	- 0·20	1·9	- 1·2	18	-12	Margate.
a Wisley, Surrey ..	57	28th	34	26th	53·9	44·9	49·4	+ 8·7	52	0	1	25	46·4	+6·9	45·1	+3·2	5	0·49	—	2·1	—	20	—	Wisley
a Swarraton ..	58	28th	33	26th	53·1	43·9	48·5	+ 9·3	46	0	1	27	46·8	+6·2	45·8	+3·0	6	0·48	- 0·05	2·8	—	26	—	Worthing.
a Tunbridge Wells ..	56	28th	34	26th	52·3	42·2	47·3	+ 7·8	37	0	1	27	45·7	+6·9			6	0·80	+ 0·28	2·3	- 0·7	22	- 7	Tunbridge Wells.
a Dungeness	53	28, 2	40	26, 27	51·1	44·4	47·8	+ 7·5	41	0							3	0·39	+ 0·02	2·1	—	20	—	Littlestone.
p Hastings.. ..	54	27th	37	26th	51·0	44·9	48·0	+ 7·4	42	0	1	29	46·5		45·3		7	0·33	- 0·17	*2·0*	- *1·5*	*19*	- *1·4*	*Hastings.*
p Southampton ..	58	28th	35	26th	53·3	45·3	49·3	+ 7·1	51	0	1	28					6	0·56	+ 0·06	2·0	- 1·3	19	-12	Southampton.
a Ventnor	54	27, 28	40	26th	52·0	45·3	48·7	+ 6·4	47	0							7	0·61	+ 0·12	2·3	- 1·3	22	-12	Ventnor.
											1	26	47·4	+5·9	46·6	+2·6	—	—	—	*2·9*	—	*27*	—	*Portsmouth.*
													46·7		46·0		—	—	—	2·2	- 1·1	21	-11	Eastbourne.
													46·0		45·3		—	—	—	*2·1*	—	*20*	—	*Bournemouth.*
LONDON.											1	29			44·8		—	—	—	*2·2*	- *1·2*	*21*	- *1·1*	*Brighton.*
a Westminster ..	*59*	*28th*	*37*	*26th*	*55·4*	*46·1*	*50·8*	+*10·3*	*62*	*0*	1	29					*4*	*0·37*	*0·00*	*1·8*	+ *0·2*	*17*	+ *2*	*Westminster.*
a Greenwich ..	*59*	*28th*	*35*	*26th*	*55·3*	*44·9*	*50·1*	+ *9·3*	*57*	*0*	1	30					*5*	*0·51*	+ *0·12*	*2·2*	- *0·3*	*21*	- *3*	*Greenwich.*
a Hampstead ..	*57*	*28th*	*38*	*26th*	*52·6*	*43·7*	*48·2*	—	*43*	*0*	1	26					*5*	*0·42*	—	*1·3*	—	*12*	—	*Hampstead.*
a Camden Square ..	*59*	*28th*	*36*	*26th*	*55·1*	*45·0*	*50·1*	—	*57*	*0*	0	33					*5*	*0·42*	—	*1·6*	—	*15*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	52	2nd	38	25, 26	49·0	42·0	45·5	+ 6·3	25	0							6	1·72	+ 0·86					
p Glasgow .. .. S	53	29th	36	25th	50·1	43·0	46·6	+ 7·3	32	0	0	35					6	1·15	+ 0·53	1·2	- 0·8	12	- 8	Glasgow.
p Rothesay .. S	51	29, 2	38	25th	49·6	43·4	46·5	+ 6·4	32	0					41·8	-0·2	6	1·69	+ 0·87					
a Kilmarnock ..	53	28th	37	25, 26	51·0	41·9	46·5	+ 7·3	32	0							6	1·08	—	*1·6*	—	*15*	—	*Kilmarnock.*
a Colmonell ..	53	2nd	35	25th	51·1	42·3	46·7	+ 7·5	33	0	0	33					5	0·95	+ 0·11					
p Dumfries ..	56	28th	35	25th	50·9	42·1	46·5	+ 6·9	32	0	1	30	41·7		41·0		7	1·38	+ 0·68	*0·8*	—	*8*	—	*Dumfries.*
p Cally, Gatehouse S	51	29th	33	25th	49·1	41·6	45·4	+ 6·2	25	1							6	1·12	+ 0·17					
b I. OF MAN.																								
p Douglas	51	26, 28	42	25, 26	49·7	44·0	46·9	+ 6·4	34	0	0	36					7	1·29	+ 0·55	2·2	- 1·0	21	-10	Douglas.
											1	29	42·3	+4·9	41·4	+1·5	—	—	—	*1·9*	—	*18*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											0	33					—	—	—	1·5	—	14	—	Hoylake.
p Aspatria	56	29th	37	25th	51·0	42·7	46·9	+ 8·5	34	0	1	28	43·1		42·8		6	1·47	+ 0·87	1·5	—	14	—	Aspatria.
p Newton Rigg ..	55	29th	32	25th	50·6	41·1	45·9	+ 8·5	31	3	2	23	41·8	+3·4	40·7	+1·1	6	1·38	+ 0·71	1·2	- 1·5	12	-15	Newton Rigg.
p Stonyhurst	54	28, 29	38	25, 26	51·3	42·4	46·9	+ 8·1	34	0	0	31					6	1·24	+ 0·43	1·3	- 1·3	13	-13	Stonyhurst.
p Blackpool	55	28th	37	26th	51·3	42·9	47·1	+ 7·2	36	0							6	0·94	+ 0·41	2·0	- 0·7	19	- 7	Blackpool.
p Manchester, Prestwich																	—	—	—					*Prestwich.*
a Liverpool (Bidston) ..	56	28, 1	39	25, 26	53·1	43·0	48·1	+ 7·4	43	0							4	0·18	- 0·27	*2·3*	—	*22*	—	*Liverpool.*
a Hawarden Bridge ..	60	28th	34	25th	55·6	43·0	49·3	+ 8·2	51	0	0	31	42·5	+4·1	41·2	+1·1	5	0·14	- 0·22	*2·1*	- *0·8*	*20*	- *7*	*Southport.*
											0	36	42·9	+4·7	43·0	+1·6	—	—	—	*1·2*	—	*12*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	59	28th	40	25th	53·9	45·6	49·8	+ 7·9	55	0							5	0·46	- 0·03	3·2	+ 0·2	30	+ 2	Llandudno.
a Holyhead ..	51	29, 1	41	25th	50·0	44·9	47·5	+ 5·6	39	0							5	1·25	+ 0·67	2·2	—	21	—	Aberdovey
p Bettws-y-Coed ..	59	28, 29	36	25th	54·3	43·7	49·0	+ 7·8	49	0	0	34	44·7	+4·9	44·7	+2·1	7	2·07	—	1·6	—	15	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Average	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	60	28th	30	25th	52·4	40·6	46·5	+ 7·9	37	4	1	25	44·3	*	43·7	*	7	1·81	—	2·5	—	24	—	Aberystwyth.
a Pembroke	52	1st	39	25th	50·7	44·7	47·7	+ 5·5	40	0	*	*	*	*	*	*	6	1·11	+ 0·52	2·5	—	24	—	Llangammarch
p Cardiff	56	28, 29	38	26th	53·1	44·0	48·6	+ 7·7	46	0	1	29	45·3	+5·2	43·7	+1·3	6	0·97	+ 0·27	2·9	- 0·4	27	- 4	Pembroke.[Wells
b, ENGLAND, S.W.																				*3·1*	—	*29*	—	*Cardiff.*
a Clifton	57	28th	39	26th	54·3	45·1	49·7	+ 8·9	54	0	0	40	*	*	*	*	7	0·53	- 0·01	*3·0*	—	*28*	—	*Clifton.*
a Shaftesbury	54	27th	36	26th	50·3	42·3	46·3	+ 7·1	30	0	*	*	45·5	*	*	*	5	0·47	- 0·08	*	*	*	*	Shaftesbury.
a Arlington	57	28th	35	25th	52·0	41·9	47·0	+ 7·1	35	0	*	*	47·9	*	*	*	5	1·35	+ 0·44	3·0	- 0·4	28	- 4	Newquay.
a Cullompton	58	27th	32	26th	51·6	44·3	49·5	+ 8·3	53	0	0	31	47·0	*	*	*	6	0·80	+ 0·17	2·2	- 0·9	21	- 8	Cullompton.
a Portland	51	28,29,1,2	43	25th	50·4	46·0	48·2	+ 6·1	43	0	*	*	*	*	*	*	6	0·22	—	*2·8*	—	*26*	—	*Weymouth.*
p Plymouth	56	28th	39	26th	53·1	45·5	49·3	+ 6·6	51	0	0	31	48·3	+6·1	*	*	6	0·85	+ 0·22	3·1	- 0·3	29	- 2	Plymouth.
p Falmouth	54	28, 29, 1	42	25th	52·9	46·6	49·8	+ 6·4	55	0	*	*	*	*	*	*	6	0·76	- 0·04	2·7	- 1·0	25	- 9	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	53	2nd	36	25th	50·6	41·1	45·9	+ 4·7	31	3	*	*	*	*	*	*	4	0·42	- 0·10	*	*	*	*	
a Blacksod Point ..	54	28th	33	25th	51·7	42·4	47·1	+ 4·3	36	0	*	*	*	*	*	*	6	1·62	+ 0·75	*	*	*	*	
p Markree Castle ..	58	28th	28	25th	53·9	41·0	47·5	+ 6·9	43	3	1	24	44·1	*	43·8	*	7	1·05	+ 0·31	1·8	- 0·9	17	- 9	Markree Castle.
a Birr Castle	56	26, 27	32	25th	54·6	41·4	48·0	+ 7·2	45	2	*	*	*	*	*	*	7	0·65	+ 0·13	*3·2*	*+ 0·3*	*30*	*+ 3*	*Birr Castle.*
b, East .. { *p* Armagh	55	26th	35	25th	52·7	41·1	46·9	+ 6·5	38	3	0	32	43·5	+2·7	43·1	+0·2	4	0·29	- 0·21	2·6	- 0·1	25	- 1	Armagh.
a Donaghadee	56	26th	34	25th	51·9	42·3	47·1	+ 5·9	36	0	*	*	*	*	*	*	4	0·39	- 0·16	*	*	*	*	
											2	27	45·3	+3·6	44·9	+1·1	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	31	*	*	*	*	—	—	—	3·3	+ 0·2	31	+ 1	Phœnix Park.
a, East .. { *p* Dublin, City	57	26, 1	37	25th	55·1	45·1	50·1	+ 7·4	57	0	0	35	*	*	*	*	5	0·31	- 0·14	*	*	*	*	Dublin City.
a Kilkenny	58	26th	34	25th	53·9	42·6	48·3	+ 7·0	44	0	*	*	*	*	*	*	7	0·75	+ 0·17	*	*	*	*	
a Waterford	54	26, 1	33	25th	52·6	41·1	46·9	+ 4·9	38	3	*	*	*	*	*	*	7	0·91	+ 0·17	*	*	*	*	
b, West .. { *a* Birr Castle	56	26, 27	32	25th	54·6	41·4	48·0	+ 7·2	45	2	*	*	*	*	*	*	7	0·65	+ 0·13	3·2	+ 0·3	30	+ 3	Birr Castle.
a Foynes	55	26, 27, 1	37	25th	54·1	43·4	48·8	+ 6·0	48	0	*	*	*	*	*	*	6	1·02	+ 0·33	*	*	*	*	
a Cahir	57	26th	33	25th	53·3	40·9	47·1	+ 5·3	40	3	*	*	*	*	*	*	7	1·07	—	*	*	*	*	
a Killarney	58	26th	39	25th	53·7	45·2	49·5	+ 6·7	54	0	*	*	*	*	*	*	7	2·15	+ 0·99	*	*	*	*	
a Valencia	54	26th	38	25th	52·7	45·1	48·9	+ 4·5	48	0	*	*	*	*	*	*	7	1·52	+ 0·41	2·7	- 0·4	23	- 4	Valencia.
a Roche's Point ..	53	26th	36	25th	51·4	43·7	47·6	+ 4·2	39	0	*	*	*	*	*	*	7	1·15	+ 0·40	3·1	—	29	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	26, 27, 1	44	25th	53·6	47·4	50·5	+ 5·3	60	0	*	*	*	*	*	*	6	0·42	- 0·18	3·3	- 0·4	31	- 4	Scilly.
a Jersey, St. Aubins ..	60	27th	37	26th	55·7	45·1	50·4	+ 6·9	59	0	*	*	*	*	*	*	5	0·81	+ 0·28	3·4	- 0·5	32	- 5	St. Heliers.
a Guernsey (Villa Carey)	60	28th	40	26th	54·4	46·7	50·6	+ 6·6	60	0	1	30	48·4	+5·2	47·7	+2·7	5	0·53	- 0·09	3·6	- 0·2	34	- 2	Guernsey.*

Additional Sunshine Means :—*Bognor, 2·5 hrs. 23 %; Newcastle (Pendower), hrs. %; Ramsgate, 2·3 hrs. 22 %; Rhyl, 3·1 hrs. 29 %; Salcombe, 3·0 hrs. 28 %; Tenby, 2·6 hrs. (−0·9) 25 % (− 9 %); Torquay, 3·8 hrs. (+0·3) 36 % (+3 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 2nd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	43	43	43·0	+1·0	SCOTLAND, W. ..	{ Lamlash	44	41	43·6	0·0
	{ Kirkwall	44	44	44·0	+3·6		{ Ballantrae .. .	46	43	44·7	+1·9
	{ Wick	45	41	44·4	+1·4	ENGLAND, N.W. ..	Port Erin	47	46	46·0	+2·0
SCOTLAND, E. ..	{ Cromarty	43	40	41·3	+2·0		{ Newquay	49	48	48·7	+2·7
	{ Pennan Bay	45	42	43·3	+3·3	ENGLAND, S.W. ..	{ Scilly	50	47	47·5	—
	{ Aberdeen, Cove Bay	43	43	43·0	+2·6		{ Plymouth‡	50	48	49·1	+3·0
	{ Burnmouth, Berwick	39	38	38·7	-0·5		{ Salcombe	49	48	48·4	+3·3
ENGLAND, N.E. ..	{ Scarborough . ..	46	42	44·1	+3·7	IRELAND, N.W. ..	{ Sheephaven	46	44	45·0	+0·2
	{ Shipwash Lightship	46	44	45·1	+5·1		{ Teelin	46	44	44·7	0·0
ENGLAND, E. ..	{ Margate‡	47	45	45·9	+5·2	IRELAND, S.W. ..	{ Cleggan	43	42	42·7	-1·8
ENGLAND, S.E. ..	Eastbourne‡	46	45	45·7	+4·7	IRELAND, E.	{ Seafield	48	44	46·3	+0·6
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked ⚓ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

NINTH WEEK—February 25th to March 2nd, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	55	30	49·3	39·9	44·6	+ 6·7	27	+ 21	6	— 30	7	+ 2	1·72	+0·81	2·2	—0·2	21	— 2
Eastern.																		
1. SCOTLAND, EAST ...	58	28	50·7	40·1	45·4	+ 8·1	32	+ 25	5	— 36	5	+ 1	0·49	—0·02	2·6	—0·2	25	— 2
2. ENGLAND, N.E.	60	30	53·0	41·6	47·3	+ 8·6	39	+ 29	1	— 32	4	0	0·17	—0·18	2·1	—0·8	20	— 8
3. ENGLAND, EAST ...	60	32	54·0	43·4	48·8	+10·0	48	+ 35	0	— 37	4	— 1	0·17	—0·18	1·9	—1·1	18	—11
4. MIDLAND COUNTIES ...	60	30	53·9	42·5	48·2	+ 9·4	43	+ 29	0	— 36	5	+ 1	0·37	—0·05	2·1	—0·6	20	— 5
5. ENGLAND, S.E.	58	33	52·8	44·4	48·6	+ 8·6	46	+ 31	0	— 29	6	+ 2	0·49	+0·03	2·1	—1·0	20	— 9
Western.																		
6. SCOTLAND, WEST ...	56	33	50·1	42·5	46·3	+ 7·2	30	+ 21	0	— 30	6	+ 2	1·30	+0·48	1·7	—0·9	16	— 8
7. ENGLAND, N.W.	60	32	52·3	43·3	47·8	+ 8·3	41	+ 30	0	— 29	6	+ 3	1·01	+0·46	1·8	—1·0	17	—10
8. ENGLAND, S.W.	60	30	52·4	44·1	48·3	+ 7·3	44	+ 27	0	— 24	6	+ 3	0·89	+0·19	2·7	—0·4	25	— 4
9. IRELAND, NORTH ...	58	28	52·6	41·6	47·1	+ 6·6	37	+ 22	1	— 24	5	0	0·74	+0·09	2·2	—0·5	21	— 4
10. IRELAND, SOUTH ...	58	32	53·5	43·2	48·4	+ 6·2	45	+ 24	0	— 19	7	+ 3	1·06	+0·32	3·1	—0·1	29	— 1
11. ENGLISH CHANNEL ...	60	37	54·6	46·4	50·5	+ 6·7	60	+ 37	0	— 9	5	+ 1	0·59	—0·02	3·4	—0·4	32	— 4

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 13 Weeks, December 3rd, 1911, to March 2nd, 1912.

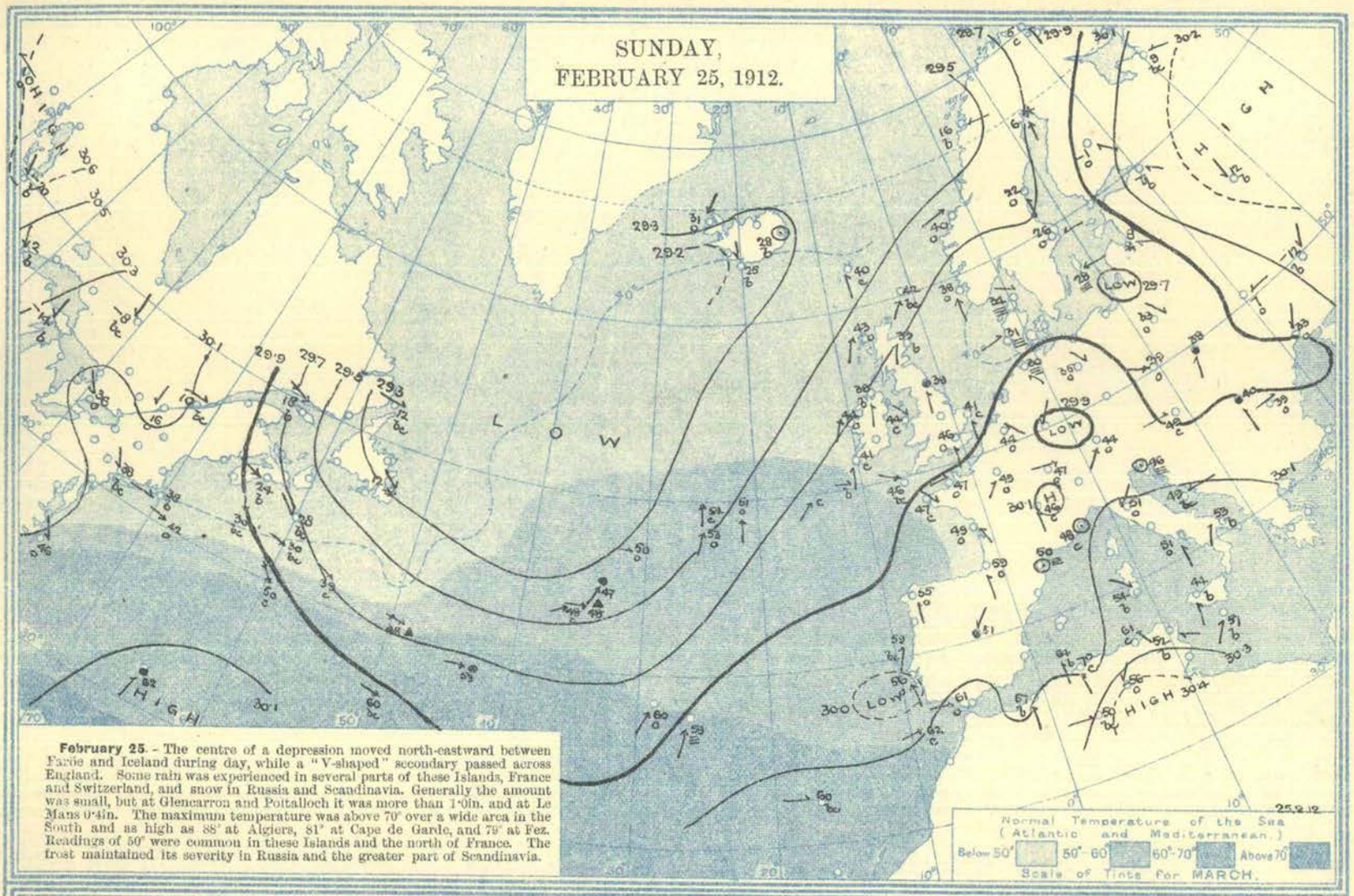
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	127	+ 33	364	— 88	69	+ 2	13·31	—2·95	1·3	+0·1	17	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	58	—5	*	*	*	*	112	+ 14	449	— 84	65	+13	9·56	+1·93	1·4	—0·3	18	— 4
2. ENGLAND, N.E	60	10	*	*	*	*	151	+ 36	354	— 72	64	+17	7·89	+2·48	1·4	—0·4	17	— 5
3. ENGLAND, EAST ...	60	14	*	*	*	*	211	+ 82	262	—220	63	+13	8·07	+2·96	1·4	—0·6	17	— 7
4. MIDLAND COUNTIES ...	60	9	*	*	*	*	212	+ 66	337	—146	62	+14	10·57	+4·27	1·4	—0·3	17	— 4
5. ENGLAND, S.E.	58	13	*	*	*	*	263	+ 82	206	—154	63	+15	12·05	+5·29	1·4	—0·5	16	— 6
Western.																		
6. SCOTLAND, WEST ...	56	12	*	*	*	*	156	+ 19	306	— 52	66	+ 7	16·20	+2·51	1·3	—0·2	16	— 3
7. ENGLAND, N.W.	60	7	*	*	*	*	204	+ 61	272	— 78	64	+11	11·71	+3·03	1·5	—0·1	18	— 1
8. ENGLAND, S.W.	60	9	*	*	*	*	296	+ 65	177	— 92	72	+18	16·36	+5·29	1·7	—0·2	20	— 2
9. IRELAND, NORTH ...	60	15	*	*	*	*	241	+ 61	231	— 73	59	— 3	12·44	+2·48	1·7	0·0	21	0
10. IRELAND, SOUTH ...	60	13	*	*	*	*	309	+ 32	181	— 50	73	+16	16·19	+4·52	1·8	—0·2	21	— 2
11. ENGLISH CHANNEL ...	60	27	*	*	*	*	499	+151	41	— 57	66	+ 5	12·97	+3·56	2·1	—0·3	24	— 3

THE YEAR.—Aggregates, &c., for the Period of 9 Weeks, December 31st, 1911, to March 2nd, 1912.

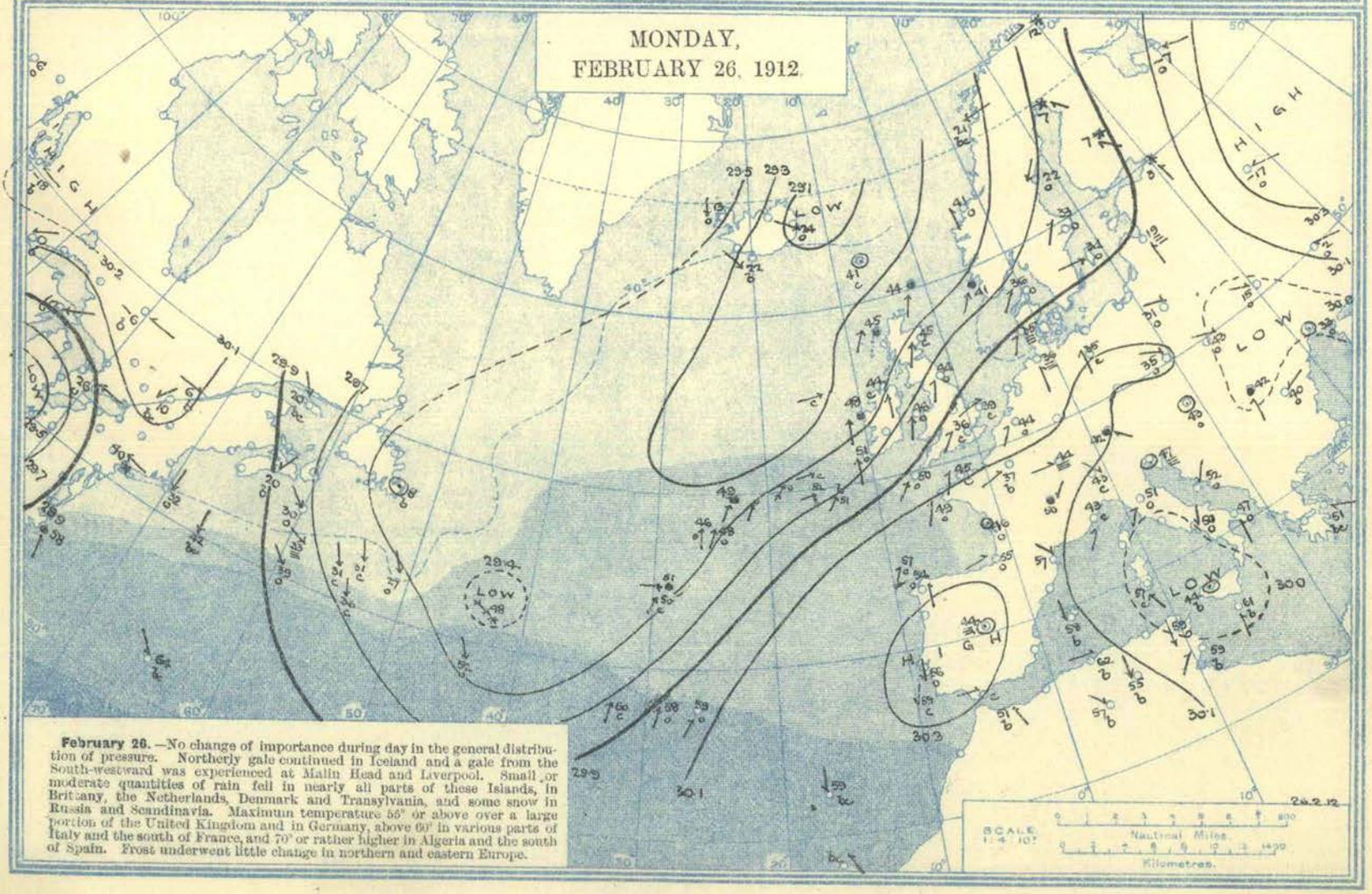
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	74	+ 14	296	— 34	44	— 2	7·57	—3·39	1·6	+0·2	20	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	58	—5	*	*	*	*	75	+ 7	343	— 34	43	+ 8	5·39	+0·40	1·6	—0·4	19	— 5
2. ENGLAND, N.E.	60	10	*	*	*	*	101	+ 21	271	— 30	41	+ 8	4·50	+1·11	1·4	—0·6	16	— 7
3. ENGLAND, EAST ...	60	14	*	*	*	*	132	+ 42	207	—132	39	+ 5	4·29	+0·92	1·4	—0·8	16	— 9
4. MIDLAND COUNTIES ...	60	9	*	*	*	*	127	+ 23	272	— 64	38	+ 5	5·72	+1·54	1·3	—0·6	15	— 7
5. ENGLAND, S.E.	58	13	*	*	*	*	155	+ 37	170	— 89	39	+ 7	5·82	+1·37	1·3	—0·8	14	— 9
Western.																		
6. SCOTLAND, WEST ...	56	12	*	*	*	*	91	+ 2	253	— 9	39	— 1	8·75	—0·10	1·5	—0·2	17	— 2
7. ENGLAND, N.W.	60	7	*	*	*	*	124	+ 30	231	— 20	39	+ 3	5·78	+0·11	1·7	—0·1	20	— 1
8. ENGLAND, S.W.	60	9	*	*	*	*	178	+ 27	159	— 40	46	+10	8·18	+1·18	1·7	—0·5	19	— 6
9. IRELAND, NORTH ...	60	15	*	*	*	*	159	+ 34	171	— 46	34	— 8	6·69	+0·16	1·8	—0·1	21	— 1
10. IRELAND, SOUTH ...	60	13	*	*	*	*	209	+ 23	130	— 35	46	+ 8	8·85	+1·30	1·9	—0·3	21	— 3
11. ENGLISH CHANNEL ...	60	27	*	*	*	*	321	+102	41	— 38	39	— 2	6·33	+0·42	2·2	—0·5	24	— 6

NOTES ON TABLE IV.

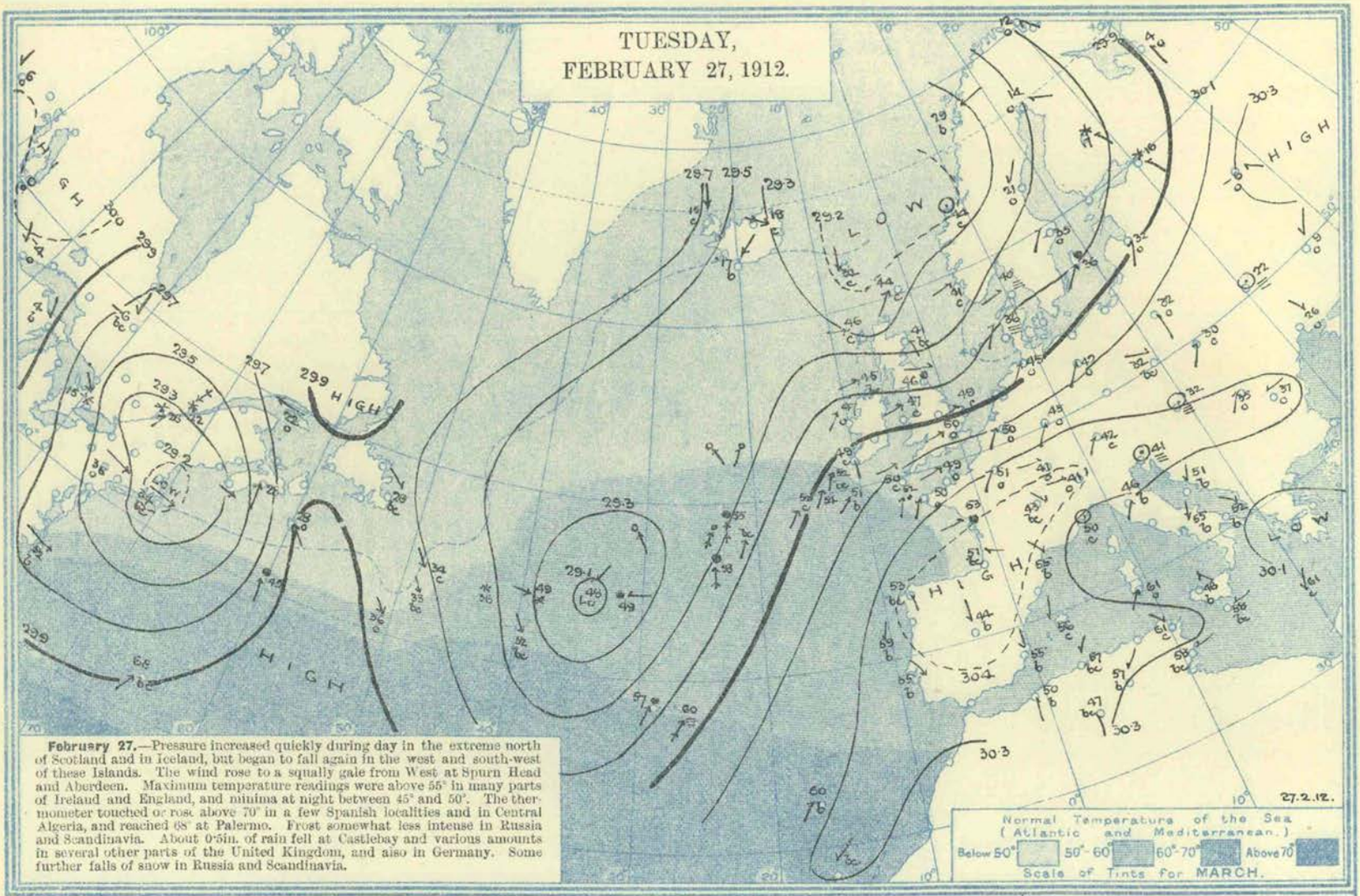
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



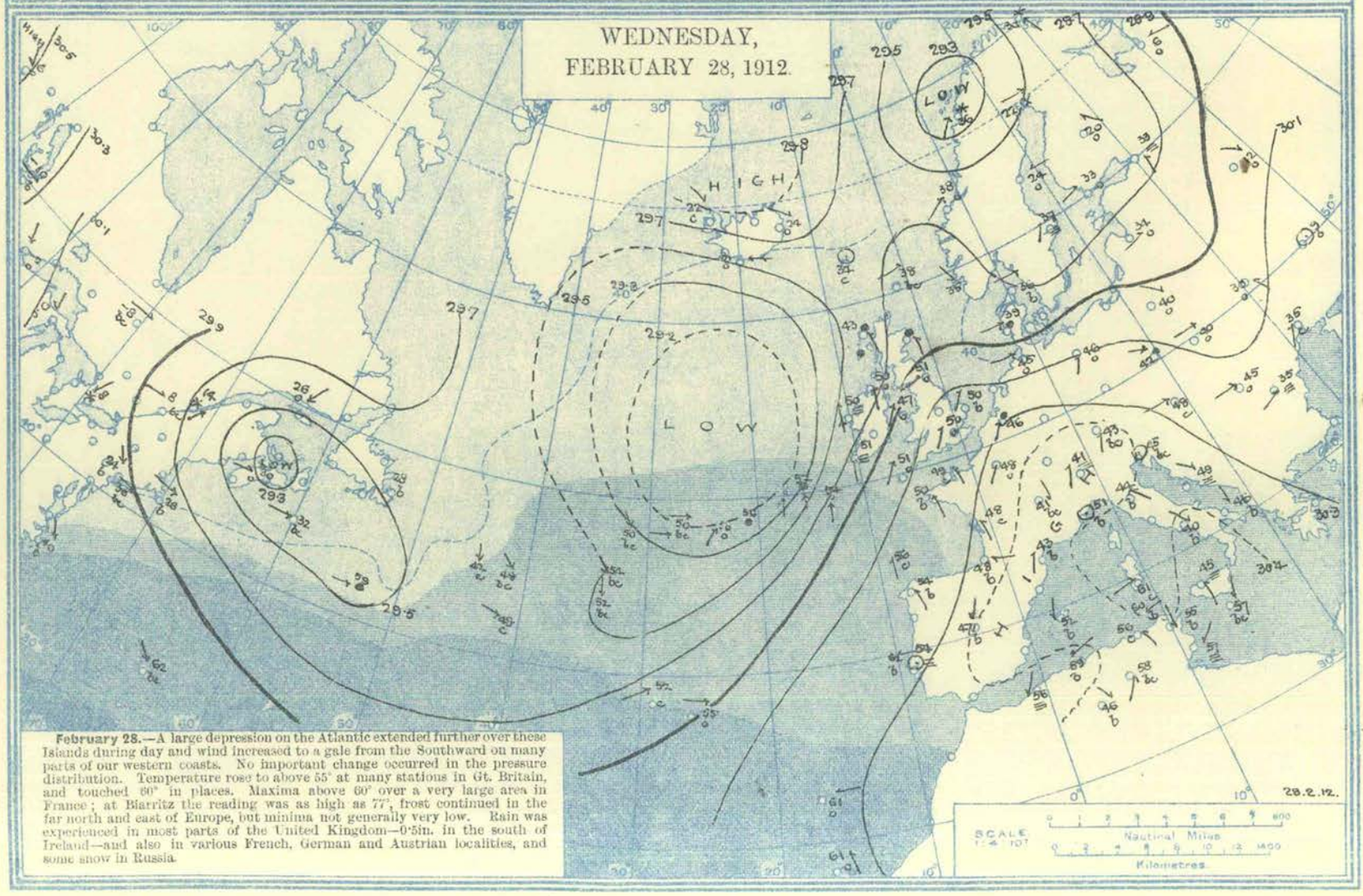
February 25. - The centre of a depression moved north-eastward between Faröe and Iceland during day, while a "V-shaped" secondary passed across England. Some rain was experienced in several parts of these Islands, France and Switzerland, and snow in Russia and Scandinavia. Generally the amount was small, but at Glencarron and Poltalloch it was more than 1·0in. and at Le Mans 0·4in. The maximum temperature was above 70° over a wide area in the South and as high as 88° at Algiers, 81° at Cape de Garde, and 79° at Fez. Readings of 50° were common in these Islands and the north of France. The frost maintained its severity in Russia and the greater part of Scandinavia.



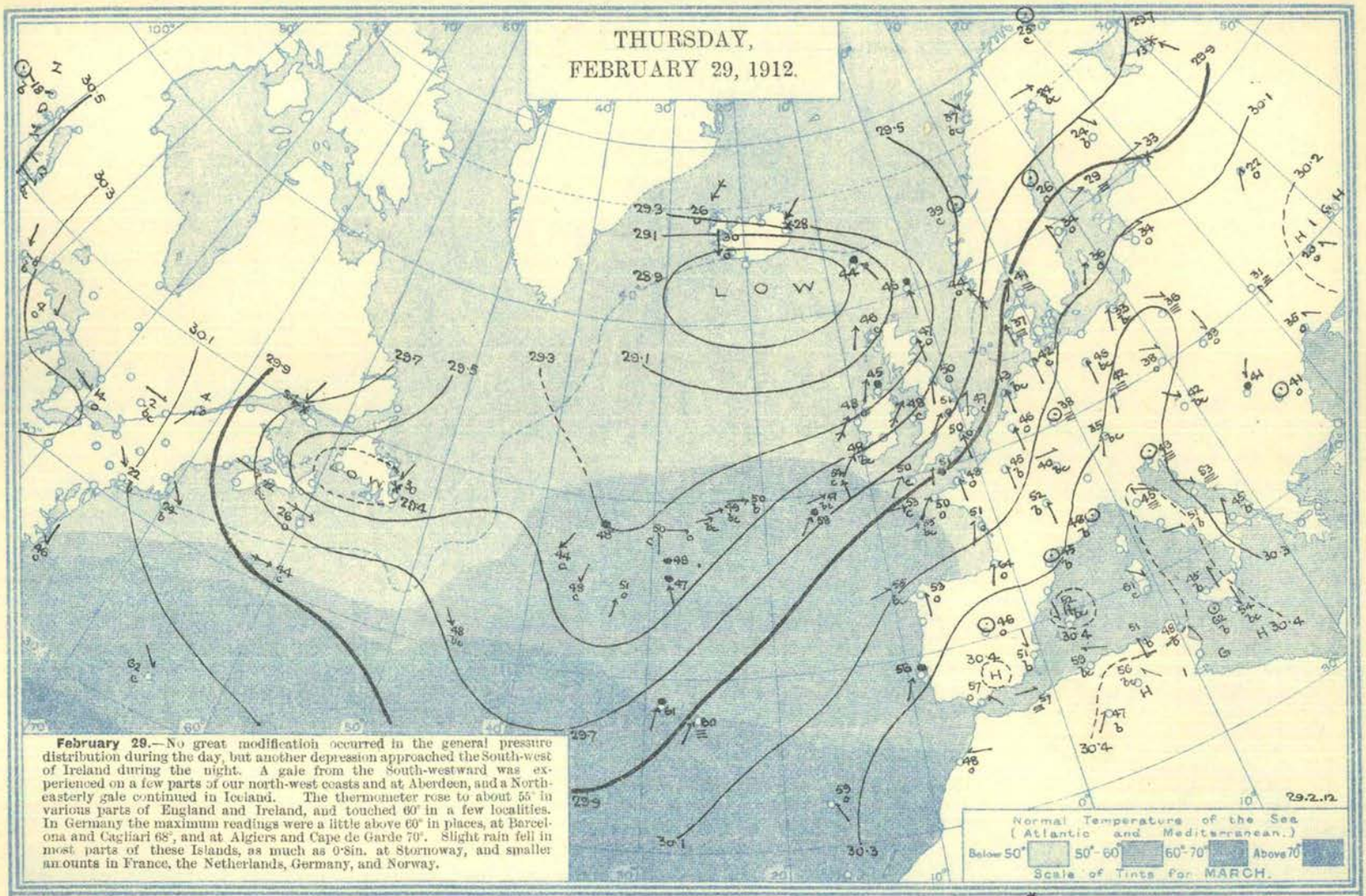
February 26.—No change of importance during day in the general distribution of pressure. Northerly gale continued in Iceland and a gale from the South-westward was experienced at Malin Head and Liverpool. Small or moderate quantities of rain fell in nearly all parts of these Islands, in Brittany, the Netherlands, Denmark and Transylvania, and some snow in Russia and Scandinavia. Maximum temperature 55° or above over a large portion of the United Kingdom and in Germany, above 60° in various parts of Italy and the south of France, and 70° or rather higher in Algeria and the south of Spain. Frost underwent little change in northern and eastern Europe.



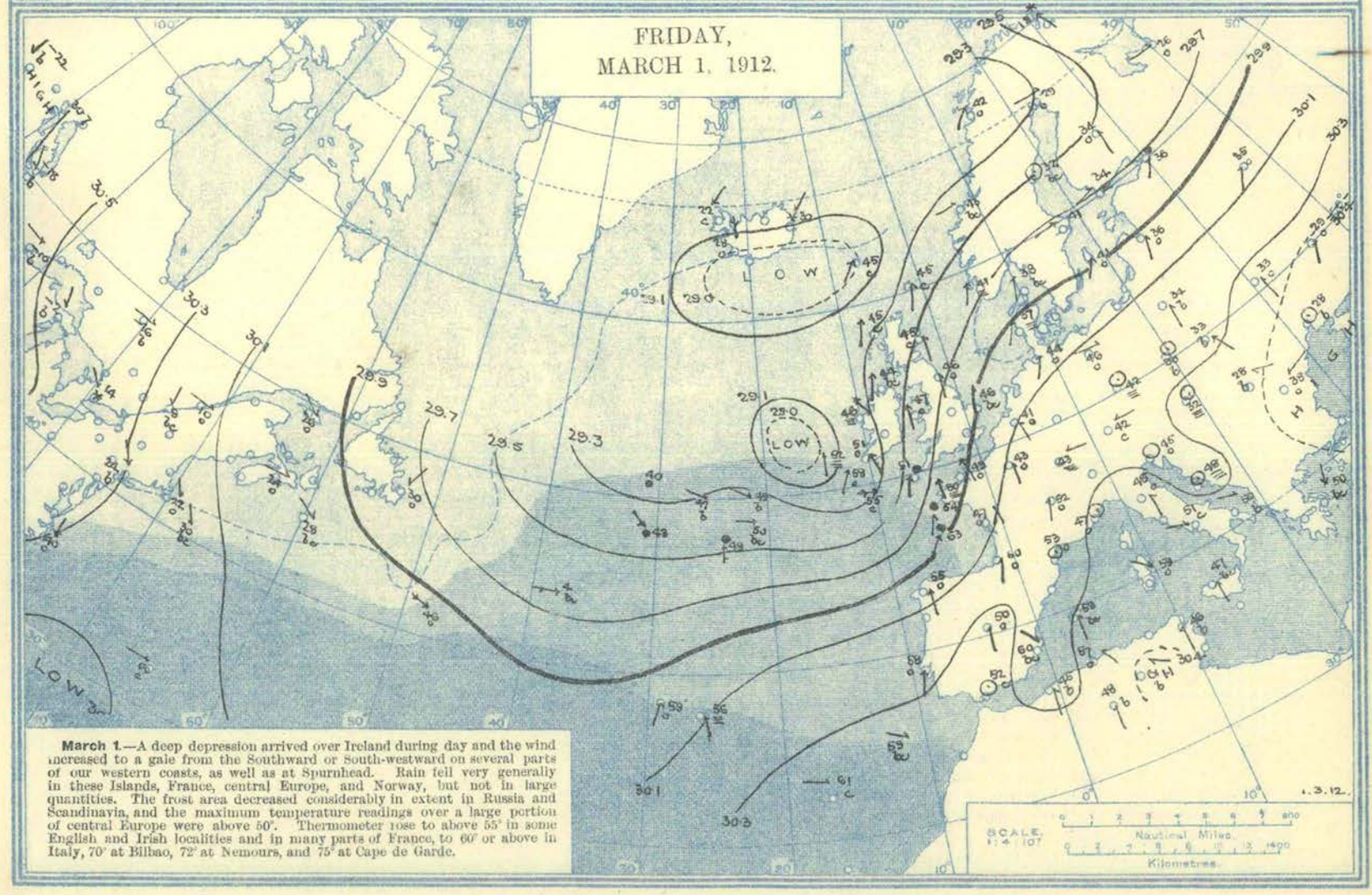
February 27.—Pressure increased quickly during day in the extreme north of Scotland and in Iceland, but began to fall again in the west and south-west of these Islands. The wind rose to a squally gale from West at Spurn Head and Aberdeen. Maximum temperature readings were above 55° in many parts of Ireland and England, and minima at night between 45° and 50°. The thermometer touched or rose above 70° in a few Spanish localities and in Central Algeria, and reached 68° at Palermo. Frost somewhat less intense in Russia and Scandinavia. About 0·5in. of rain fell at Castlebay and various amounts in several other parts of the United Kingdom, and also in Germany. Some further falls of snow in Russia and Scandinavia.



February 28.—A large depression on the Atlantic extended further over these Islands during day and wind increased to a gale from the Southward on many parts of our western coasts. No important change occurred in the pressure distribution. Temperature rose to above 55° at many stations in Gt. Britain, and touched 60° in places. Maxima above 60° over a very large area in France; at Biarritz the reading was as high as 77°; frost continued in the far north and east of Europe, but minima not generally very low. Rain was experienced in most parts of the United Kingdom—0·5in. in the south of Ireland—and also in various French, German and Austrian localities, and some snow in Russia.



February 29.—No great modification occurred in the general pressure distribution during the day, but another depression approached the South-west of Ireland during the night. A gale from the South-westward was experienced on a few parts of our north-west coasts and at Aberdeen, and a North-easterly gale continued in Iceland. The thermometer rose to about 55° in various parts of England and Ireland, and touched 60° in a few localities. In Germany the maximum readings were a little above 60° in places, at Barcelona and Cagliari 68°, and at Algiers and Cape de Garde 70°. Slight rain fell in most parts of these Islands, as much as 0·8in. at Stornoway, and smaller amounts in France, the Netherlands, Germany, and Norway.



March 1.—A deep depression arrived over Ireland during day and the wind increased to a gale from the Southward or South-westward on several parts of our western coasts, as well as at Spurnhead. Rain fell very generally in these Islands, France, central Europe, and Norway, but not in large quantities. The frost area decreased considerably in extent in Russia and Scandinavia, and the maximum temperature readings over a large portion of central Europe were above 50°. Thermometer rose to above 55° in some English and Irish localities and in many parts of France, to 60° or above in Italy, 70° at Bilbao, 72° at Nemours, and 75° at Cape de Garde.

SATURDAY,
MARCH 2, 1912.

LOW

LOW

March 2.—A depression travelled north-eastward off our western coasts during day and extended considerably in an easterly direction. A squally gale from the Southward was experienced in many parts of England and on the north-west coast of Ireland. Rain fell very generally in the United Kingdom — 0·5in. to 0·9 in. in Wales—and also in France, the central and northern countries of the Continent, and at some stations in Russia. A thunderstorm occurred at Valencia (Ireland) and Nantes. Frost very intense at Archangel, but thermometer above 32° over Russia generally. Maxima about 55° in various parts of England, between 60° and 70° in southern Europe, 74° at Algiers, and 79° at Tunis.

2.3.12

Normal Temperature of the Sea
(Atlantic and Mediterranean.)
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for MARCH.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 2ND MARCH, 1912.

Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); → = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* No. 10. TENTH WEEK, SUNDAY, MARCH 3RD, TO SATURDAY, MARCH 9TH, 1912. *Price 6d.* *Annual Subscription Post Paid* £1 10s. 0d.

I.—General Remarks.

Weather was again unsettled, with occasional rain over the Kingdom as a whole, and daily falls at many stations in the west and south-west. A well-marked line squall accompanied by sharp thunderstorms and exceedingly heavy gusts of wind travelled from the south-west of Ireland to the south-east of England on the 4th, reaching a velocity of 68 miles per hour at Scilly, 89 miles at Pendennis Castle (Falmouth), 62 miles at Pyrton Hill, and 60 miles at Kew. In another squall a few hours later a gust of 78 miles per hour was recorded at Scilly and one of 98 miles per hour at Pendennis.

Temperature was again above the average, the excess amounting to rather more than 4° in England East and South-East. The highest of the maxima were recorded on rather irregular dates, and ranged from 58° in the English Channel, and 55° in Ireland to 51° in Scotland North and 50° in Scotland West. The lowest of the minima, which were registered at most stations either on the 7th or 8th, varied from 28° in Scotland East to 34° in Scotland West and England North-West, and to 36° in the English Channel. The lowest grass readings reported were 20° at Crathes, 21° at Plymouth and Southampton, and 22° at Rauceby. At a depth of 1 foot the temperature of the soil was much above the average, a considerable excess of warmth being found also at a depth of 4 feet.

Mean Temperature of the Sea.—On almost all parts of the coast except the south-west of Ireland the water was warmer than during the corresponding week of last year, its temperature being also above the average at all stations except Lamlash and Cleggan. It was warmest (above 49°) at Newquay and Salcombe, and coldest (40°) at Burnmouth.

Rainfall was less than the average in Scotland North and East, but above it elsewhere, the excess being rather large in most districts. On the 4th 1·45 in. fell at Llangammarch Wells, 1·3 in. at Bettws-y-Coed and Cullompton, 1·19 in. at Buxton, and 1·05 in. at Bath.

Bright Sunshine was above the average in all districts except England North-East and the English Channel. The duration varied from 5½ hours per day at Weymouth and Castlebay to less than 2 hours per day at Dumfries, Newcastle, and York. The percentage of the possible duration ranged from 46 in Ireland North to 28 in the Midland Counties.

Barometer and Wind. The main feature of the pressure distribution was the arrival over these islands or their neighbourhood of depressions from the Atlantic. At the commencement of the week a rather deep system had its centre over the Hebrides, while a secondary disturbance was moving eastwards over this country. The principal minimum subsequently travelled away North-North-Eastwards, but during Monday another came over Ireland, and during the night passed East-North-Eastwards to the North Sea and afterwards to Southern Scandinavia. The centre of a subsequent disturbance remained on the Atlantic and moved in a Northerly or North-North-Easterly direction on Friday and Saturday. The resulting Southerly to Westerly winds were often strong or high, and on Monday a gale was experienced on many parts of our western and southern coasts, as well as at Spurn Head. On Tuesday a gale from a more Westerly point again occurred on various parts of the south coast.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 39.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Moderate	Moderate	Heavy	Very heavy	Very heavy	Very heavy	Moderate	Heavy	Very heavy	Moderate	Very heavy	Very heavy
	Sunshine ...	Abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 1 week from March 3rd, 1912.	Warmth ...	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0
	Rainfall ...	0 * 0	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	0 * 0	1 * 0	1 * 0	0 * 0	1 * 0	1 * 0
	Sunshine ...	1 * 0	0 * 0	0 * 0	0 * 0	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	0 * 0

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(23441—24.) Wt. 113—4. 450. 3/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall,	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from Average.	Mean.	Difference from Average.								
	°		°		°		°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hrs.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	47	*9th*	*33*	*8th*	*44·6*	*37·6*	*41·0*	—	7	17	•	•	41·0	•	•	•	6	*0·19*	—	*2·6*	—	*24*	—	*Baltasound.*
a Lerwick	47	4th	34	7, 8, 9	44·3	37·6	40·9	+ 2·5	6	17	•	•	•	•	•	•	5	0·37	—	3·3	+ 0·4	31	+ 4	Deerness.
a, Islands .. *a* Stornoway	48	4, 5, 9	34	5, 6, 8	46·9	36·7	41·7	+ 2·5	14	21	•	•	•	•	•	•	7	1·47	+ 0·51	3·5	+ 0·6	33	+ 6	Stornoway.
a Castlebay, Barra Isd. .	*49*	*7th*	*39*	*5th*	*46·7*	*40·6*	*43·6*	+ *1·8*	*17*	*4*							*6*	*0·44*	—	*5·5*	—	*51*	—	*Castlebay.*
a Wick	50	3rd	31	9th	45·6	36·9	41·1	+ 2·4	10	19	•	•	•	•	•	•	5	0·91	+ 0·39	•	•	•	•	•
b, Mainland. *p* Strathpeffer ..	49	3, 4, 7	30	9th	47·4	34·8	40·9	+ 2·8	*15*	28	•	•	•	•	•	•	5	0·19	− 0·43	3·1	+ 0·4	28	+ 4	Strathpeffer.
p Glencarron ..	49	9th	31	8th	46·0	35·3	40·5	+ 3·0	11	25	•	•	•	•	•	•	7	1·46	− 0·33	•	•	•	•	•
p Fort Augustus..	50	5, 9	31	8th	48·3	36·7	42·3	+ 3·7	24	15	•	•	•	•	•	•	4	0·78	− 0·11	3·1	+ 0·9	28	+ 8	Fort Augustus.
p Fort William ..	51	5th	33	8th	47·9	37·1	42·3	+ 2·5	23	14	•	•	•	•	•	•	6	0·58	− 1·04	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle..	53	3, 4	31	8th	49·9	37·1	43·3	+ 3·8	30	14	2	20	40·7	+3·8	40·7	+2·8	—	—	—	3·3	—	30	—	Crathes S.
a Nairn	50	3, 4, 7, 9	28	8th	48·6	35·1	41·7	+ 2·9	18	28	•	•	•	•	•	•	4	0·78	+ 0·26	*4·0*	—	*37*	—	*Gordon Castle.*
a Aberdeen ..	54	3rd	32	8, 9	48·6	37·0	42·6	+ 3·4	25	14	•	•	•	•	41·6	+2·4	6	0·34	− 0·09	3·5	—	32	—	Nairn.
a Balmoral ..	50	3, 6	28	8th	47·9	33·9	40·7	+ 5·7	17	31	3	23	•	•	•	•	5	0·29	− 0·23	3·6	+ 0·2	33	+ 2	Aberdeen.
p Crieff	52	3rd	32	8th	48·1	35·4	41·6	+ 2·5	17	26	•	•	•	•	•	•	5	0·35	− 0·30	•	•	•	•	Balmoral.
a Leith	51	3, 5	33	8th	49·0	38·1	43·4	+ 2·9	26	11	•	•	•	•	•	•	5	0·27	− 0·45	2·7	—	26	—	Balruddery.
p West Linton ..	47	3, 6	29	8th	44·7	33·9	39·1	+ 1·8	8	29	•	•	•	•	•	•	5	0·16	− 0·19	•	•	•	•	•
p Marchmont ..	49	3, 9	32	8th	47·0	34·6	40·6	+ 2·6	14	28	5	28	39·4	+2·2	•	•	6	0·32	—	*2·3*	—	*21*	—	*West Linton.*
																	3	0·34	− 0·21	2·7	− 0·4	25	− 4	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	54	3rd	33	9th	48·3	37·0	42·5	+ 3·1	25	14	5	27	39·7	+3·0	41·9	+2·8	4	0·51	− 0·02	2·9	—	26	—	Cockle Park.
a Shields	52	3rd	34	7, 9	47·6	36·3	41·8	+ 1·8	16	23	•	•	•	•	•	•	4	0·55	+ 0·17	*1·9*	− *0·6*	*17*	− *5*	*Newcastle.*
p Durham	51	3rd	33	9th	47·1	37·0	41·9	+ 3·1	14	20	5	25	•	•	•	•	3	0·52	+ 0·14	3·2	0·0	29	0	Durham.
a, North .. *p* Rounton	50	3, 6, 9	32	6th	47·5	35·7	41·4	+ 2·6	15	25	4	26	41·4	•	•	•	5	0·65	+ 0·25	•	•	•	•	Rounton.
a West Wilton ..	*49*	*9th*	*33*	*5th*	*45·7*	*36·0*	*40·7*	—	*10*	*23*	2	28	41·2	•	40·8	•	*5*	*0·99*	—	•	•	•	•	*West Witton.*
p Scarborough ..	52	7th	36	6, 8, 9	48·7	38·1	43·2	+ 3·1	25	11	•	•	•	•	•	•	5	0·41	− 0·01	3·2	—	29	—	Scarborough.
p York	51	3, 9	35	8, 9	48·4	38·0	43·1	+ 2·9	25	11	•	•	42·3	+3·8	42·9	+2·4	5	0·65	+ 0·29	1·8	− 1·1	16	−10	York.
a Spurn Head	51	3rd	35	8th	47·9	38·3	43·0	+ 2·9	23	10	4	28	42·0	+3·5	42·6	+1·9	3	0·41	+ 0·11	*2·4*	—	*22*	—	*Hull.*
b, South .. *a* Lincoln	51	3, 7, 9	33	7th	49·4	36·6	42·8	+ 2·5	28	15	•	•	41·5	+3·9	42·7	+2·8	3	0·47	+ 0·12	•	•	•	•	Lincoln.
a Fulbeck	51	9th	34	7th	48·6	38·0	43·1	+ 2·9	25	11	4	22	43·6	+4·1	44·1	+2·3	5	0·62	+ 0·26	3·6	—	33	—	Rauceby.
											2	29	42·5	+3·4	44·2	+3·3	—	—	—	4·2	—	38	—	Skegness.
3. ENGLAND, E.																	—	—	—	*4·1*	—	*37*	—	*Lowestoft.*
p Cromer	53	3rd	34	8th	49·9	37·7	43·6	+ 4·4	29	12	•	•	•	•	•	•	6	0·58	—	3·8	—	35	—	Cromer.
p Hillington ..	53	3, 9	31	8th	49·0	36·1	42·4	+ 2·6	28	17	4	23	•	•	•	•	3	1·34	+ 0·92	3·1	− 0·2	28	− 2	Hillington.
a, North .. *a* Yarmouth ..	52	3rd	35	7, 8	49·1	37·7	43·2	+ 3·8	26	12	•	•	43·1	+3·8	44·7	+2·5	5	0·58	+ 0·24	4·3	—	39	—	Yarmouth
a Norwich	53	3rd	32	8th	49·9	37·9	43·7	+ 4·1	29	11	3	24	42·9	•	•	•	4	0·75	—	*3·9*	—	*35*	—	*Norwich.*
p Geldeston	53	3rd	34	8th	50·6	38·0	44·1	+ 4·0	32	11	•	•	•	•	•	•	6	0·86	+ 0·53	3·4	− 0·2	31	− 1	Geldeston.
p Cambridge	54	9th	32	8th	50·6	37·7	44·0	+ 3·6	32	12	4	24	44·1	+4·5	45·7	+3·8	4	0·64	+ 0·32	4·1	+ 0·6	37	+ 5	Cambridge.
a Felixstowe ..	*52*	*5, 7*	*36*	*7, 8*	*49·7*	*40·6*	*45·0*	+ *4·6*	*27*	*4*	•	•	•	•	•	•	*5*	*0·61*	—	*4·4*	—	*40*	—	*Felixstowe*
a Clacton-on-Sea ..	53	5th	36	7, 8	49·9	40·0	44·8	+ 4·9	28	6	1	30	45·4	+4·8	46·6	+3·3	4	0·51	—	3·8	—	34	—	Clacton.
b, South .. *a* Rothamsted ..	53	5th	33	8th	50·1	37·3	43·5	+ 3·9	30	13	•	•	•	•	•	•	5	1·53	+ 1·10	3·6	+ 0·3	32	+ 3	Rothamsted.
a Shoeburyness ..	*53*	*5th*	*36*	*7th*	*50·7*	*41·1*	*45·8*	+ *4·7*	*30*	*3*	1	27	45·3	+5·0	•	•	*4*	*0·44*	+ *0·17*	*3·5*	—	*32*	—	*Southend.*
p Tottenham	53	3, 5	37	7th	50·9	40·0	45·3	+ 4·5	32	6	0	34	•	•	46·1	+3·6	4	1·01	—	3·2	—	29	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	49	3rd	35	6, 7, 8	46·1	36·6	41·2	+ 2·4	11	21	2	27	41·9	+4·1	41·8	+2·0	—	—	—	*2·3*	—	*21*	—	*Huddersfield.*
a Bawtry	52	3rd	32	9th	49·1	36·6	42·7	+ 2·4	28	15	4	28	41·2	+3·1	42·0	+2·6	5	0·94	+ 0·45	2·7	—	25	—	Harrogate.
p Buxton	*46*	*3, 7, 9*	*33*	*8, 9*	*44·6*	*36·4*	*40·4*	+ *3·4*	*7*	*21*	5	23	42·0	•	43·3	•	5	0·79	+ 0·44	2·3	− 0·6	21	− 5	Worksop.
a East .. *a* Nottingham ..	51	3, 9	34	8th	49·1	37·7	43·2	+ 3·2	26	12	4	28	41·4	+4·7	42·2	+2·3	*6*	*1·86*	+ *0·95*	*2·6*	—	*24*	—	*Buxton.*
p Birmingham, Edgbsn.	50	3, 4, 9	36	6, 8, 9	48·4	37·4	42·7	+ 2·9	24	13	3	28	42·0	+4·4	42·7	+3·6	4	0·37	+ 0·02	2·9	—	28	—	Nottingham.
a Raunds	53	3, 5, 9	34	8th	50·7	38·4	44·4	+ 4·6	32	10	1	30	42·3	+3·0	44·9	+2·0	6	1·73	+ 1·32	3·6	—	32	—	Birmingham.
a Oxford	53	9th	35	7th	50·3	39·4	44·7	+ 3·9	30	7	3	27	43·2	•	44·4	•	4	1·04	—	•	•	•	•	Raunds.
											2	28	•	•	•	•	5	0·93	+ 0·59	3·3	+ 0·1	30	+ 1	Oxford.
											1	30	41·7	+4·0	42·2	+2·1	—	—	—	3·2	—	29	—	Sheffield.
a Cheadle	50	3, 8	32	7th	47·9	35·5	41·5	+ 2·6	17	25	4	26	•	•	•	•	5	1·11	+ 0·61	•	•	•	•	Cheadle.
p Shrewsbury ..	52	3, 5, 9	35	7, 8	50·4	37·3	43·7	+ 2·6	32	13	0	32	•	•	•	•	6	1·02	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	52	3, 5	36	7th	50·8	38·0	44·2	+ 3·3	32	11	1	28	•	•	•	•	6	1·72	+ 1·31	•	•	•	•	Hereford.
a Cirencester ..	52	6th	32	7th	48·9	36·3	42·4	+ 3·0	27	16	0	31	43·7	•	44·9	•	7	1·84	+ 1·37	2·9	− 0·5	26	− 4	Cirencester.
a Bath	53	3, 4	37	7, 8	51·6	40·6	45·9	+ 4·7	33	4	•	•	45·2	+4·5	45·8	+2·5	6	2·42	+ 1·94	4·1	—	37	—	Bath.
5. ENGLAND, S.E.																								
p Kew	52	3, 5, 9	36	7, 8	50·6	39·4	44·3	+ 3·9	31	7	1	27	45·7	+5·9	47·1	+4·1	—	—	—	•	•	•	•	Canterbury.
a Marlborough ..	51	4, 9	30	7th	49·9	36·9	43·2	+ 3·6	30	14	2	27	44·9	+5·1	46·4	+3·8	6	0·76	+ 0·39	4·2	+ 1·3	38	+12	Kew.
a Margate	52	3, 5	37	8th	50·7	41·0	45·7	+ 4·9	30	3	2	23	•	•	•	•	7	1·94	+ 1·39	3·3	+ 0·4	30	+ 3	Marlborough.
a Wisley, Surrey ..	52	4, 5, 9	36	7th	50·7	40·3	45·4	+ 3·9	31	5	—	—	45·0	+4·7	46·0	+4·3	5	0·70	+ 0·35	3·4	− 0·1	31	0	Margate.
a Swarraton	51	3, 4, 9	32	8th	49·9	37·9	43·7	+ 3·9	29	11	4	25	43·9	+4·2	45·9	+3·8	6	1·11	—	4·2	—	38	—	Wisley
a Tunbridge Wells ..	51	5th	34	8th	49·1	38·0	43·4	+ 3·3	27	11	2	25	46·0	+5·1	46·7	+3·7	5	1·33	+ 0·81	5·1	—	46	—	Worthing.
a Dungeness ..	52	7th	34	7th	50·1	41·7	45·8	+ 5·1	28	1	2	28	43·9	+4·8	•	•	5	1·35	+ 0·85	3·8	+ 0·4	34	+ 4	Tunbridge Wells.
p Hastings.. ..	52	7th	36	7th	49·9	40·6	45·1	+ 3·8	28	4	•	•	•	•	•	•	5	0·81	+ 0·45	4·7	—	42	—	Littlestone.
p Southampton ..	53	6, 9	34	7th	52·1	38·7	45·2	+ 2·6	36	9	2	28	45·4	•	46·1	•	6	0·68	+ 0·19	*4·6*	+ *0·7*	*41*	+ *7*	*Hastings.*
a Ventnor	52	5, 6, 7	39	7, 8	51·4	41·6	46·4	+ 3·7	32	1	4	21	•	•	•	•	6	1·71	+ 1·21	3·8	+ 0·2	34	+ 2	Southampton.
											2	28	•	•	•	•	7	1·34	+ 0·87	5·1	+ 1·1	46	+10	Ventnor.
											1	28	45·5	+3·6	47·3	+3·1	—	—	—	*4·7*	—	*42*	—	*Portsmouth.*
											•	•	46·1	•	46·8	•	—	—	—	4·9	+ 1·2	44	+11	Eastbourne.
											•	•	44·8	•	45·8	•	—	—	—	*4·8*	—	*43*	—	*Bournemouth.*
LONDON.											1	29	•	•	46·1	•	—	—	—	*4·7*	+ *1·0*	*42*	+ *9*	*Brighton.*
a Westminster	*54*	*5, 9*	*35*	*7th*	*52·1*	*41·1*	*46·4*	+ *5·2*	*35*	*3*	2	27	•	•	•	•	*5*	*0·62*	+ *0·24*	*3·6*	+ *1·7*	*32*	+*16*	*Westminster.*
a Greenwich	*54*	*3rd*	*34*	*8th*	*51·6*	*39·3*	*45·3*	+ *3·7*	*34*	*8*	2	28	•	•	•	•	*6*	*0·80*	+ *0·42*	*3·4*	+ *0·6*	*31*	+ *6*	*Greenwich.*
a Hampstead	*51*	*5, 9*	*33*	*7th*	*49·3*	*38·6*	*43·8*	—	*27*	*10*	3	25	•	•	•	•	*5*	*0·96*	—	*3·7*	—	*33*	—	*Hampstead.*
a Camden Square ..	*55*	*9th*	*34*	*7th*	*52·0*	*39·3*	*45·5*	—	*36*	*8*	0	32	•	•	•	•	*5*	*0·83*	—	*3·6*	—	*32*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	50	3rd	36	8th	47·0	38·3	42·5	+ 3·1	19	10	•	•	•	•	•	•	7	1·17	+ 0·34	•	•	•	•	•
p Glasgow	49	3rd	36	5th	46·9	38·3	42·5	+ 2·9	19	10	0	32	•	•	•	•	6	0·82	+ 0·23	2·7	+ 0·4	25	+ 4	Glasgow.
p Rothesay	50	3rd	37	7, 8	47·1	38·7	42·8	+ 2·3	19	9	•	•	•	•	43·0	+1·1	7	0·98	+ 0·19	•	•	•	•	•
a Kilmarnock ..	49	2rd	36	9th	47·1	38·0	42·4	+ 2·6	20	11	•	•	•	•	•	•	6	0·69	—	*3·4*	—	*31*	—	*Kilmarnock.*
a Colmonell ..	49	3, 6	36	9th	47·1	38·4	42·6	+ 2·7	19	10	0	34	•	•	•	•	6	1·37	+ 0·57	•	•	•	•	•
p Dumfries ..	49	3, 5, 7	37	4, 6, 7, 8	47·1	38·2	42·5	+ 2·5	19	11	2	29	41·6	•	42·0	•	5	0·86	+ 0·19	*2·0*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse	49	5, 7	34	5th	47·1	36·4	41·6	+ 2·0	14	22	•	•	•	•	•	•	5	1·28	+ 0·38	•	•	•	•	•
b I. OF MAN.																								
p Douglas	49	3, 8	37	9th	48·1	39·4	43·6	+ 2·7	22	7	0	31	•	•	•	•	3	0·72	+ 0·03	5·1	+ 1·5	46	+14	Douglas.
											1	29	41·8	+4·3	42·4	+2·4	—	—	—	*1·8*	—	*16*	—	*Burnley.*
											0	33	•	•	•	•	—	—	—	4·8	—	44	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	49	3, 9	38	4, 5, 7, 8	47·9	38·7	43·2	+ 4·2	22	9	0	31	42·8	•	43·8	•	4	0·37	− 0·27	3·1	—	28	—	Aspatria.
p Newton Rigg ..	49	3rd	34	4, 6	46·4	36·7	41·4	+ 3·4	12	21	5	24	41·8	+3·3	41·6	+1·9	6	0·93	+ 0·31	2·1	− 1·0	19	− 9	Newton Rigg.
p Stonyhurst	50	9th	37	6, 7, 8, 9	47·4	37·9	42·5	+ 3·2	21	11	0	31	•	•	•	•	6	1·06	+ 0·23	2·3	− 0·6	21	− 6	Stonyhurst.
p Blackpool	50	8th	36	8th	48·1	39·4	43·6	+ 3·4	22	7	•	•	•	•	•	•	4	0·83	+ 0·29	4·4	+ 1·4	40	+13	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	51	3, 8	38	8th	48·4	39·7	43·9	+ 2·5	23	6	•	•	•	•	•	•	3	0·82	+ 0·39	*4·8*	—	*44*	—	*Liverpool.*
a Hawarden Bridge ..	52	3, 8, 9	38	8, 9	49·9	40·0	44·8	+ 3·3	28	6	0	32	42·4	+3·7	42·7	+2·3	5	1·00	+ 0·65	*4·4*	+ *1·3*	*40*	+*11*	*Southport.*
											0	35	42·9	+4·7	44·3	+2·7	—	—	—	*2·3*	—	*21*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	52	9th	39	4th	50·1	40·7	45·3	+ 3·2	29	4	•	•	•	•	•	•	5	0·81	+ 0·31	5·1	+ 1·9	46	+17	Llandudno.
a Holyhead ..	51	8th	40	5, 6, 7, 8	49·3	40·9	45·0	+ 2·9	26	3	•	•	•	•	•	•	4	0·70	+ 0·12	4·4	—	40	—	Aberdovey
p Bettws-y-Coed ..	50	3, 5, 7, 9	34	8th	49·9	39·6	44·6	+ 3·0	28	7	2	30	44·1	+4·4	45·0	+2·4	7	1·75	—	3·5	—	32	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day c	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	50	3, 8, 9	32	7th	48·9	37·0	42·8	+ 3·4	27	14	2	26	42·8	+3·4	44·3	+1·5	7	3·11	—	4·1	—	37	—	Aberystwyth.
a Pembroke	54	3rd	41	7th	50·1	43·4	46·7	+ 4·4	33	0	•	•	•	•	•	•	6	1·29	+ 0·74	4·9	+ 1·2	44	+11	Pembroke.[Wells
p Cardiff	53	4th	34	7th	50·7	38·9	44·6	+ 3·0	31	9	1	28	44·1	+4·4	44·9	+2·5	6	1·69	+ 0·99	*4·3*	—	*39*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	53	4, 9	36	7th	51·3	40·7	45·8	+ 4·5	32	4	1	30	•	•	•	•	7	1·88	+ 1·35	*4·5*	—	*41*	—	*Clifton.*
a Shaftesbury	51	6th	34	7th	48·7	37·0	42·7	+ 3·2	26	14	•	•	43·8	•	•	•	7	1·66	+ 1·13	•	•	•	•	Shaftesbury.
a Arlington	52	4th	35	7th	49·3	38·3	43·6	+ 3·4	27	10	•	•	46·9	•	•	•	7	2·02	+ 1·13	5·4	+ 1·6	49	+15	Newquay.
a Cullompton	54	4th	31	7th	51·9	38·4	45·0	+ 3·3	36	10	1	29	45·5	•	•	•	7	2·59	+ 2·00	2·9	- 0·5	26	- 4	Cullompton.
a Portland	51	9th	43	6, 7, 8	49·9	44·4	47·1	+ 4·7	36	0	•	•	•	•	•	•	6	0·98	—	*5·5*	—	*50*	—	*Weymouth.*
p Plymouth	54	8th	38	7th	52·2	41·3	46·6	+ 3·6	35	2	2	21	46·4	+4·3	•	•	6	1·24	+ 0·62	4·6	+ 0·9	41	+ 8	Plymouth.
p Falmouth	53	4th	40	5th	50·1	42·4	46·1	+ 2·4	29	0	•	•	•	•	•	•	7	1·76	+ 0·99	4·9	+ 0·9	44	+ 8	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	49	3, 9	37	4th	47·0	39·0	42·9	+ 1·6	19	8	•	•	•	•	•	•	6	0·21	- 0·30	•	•	•	•	• •
a Blacksod Point ..	50	3, 6	37	6th	49·0	39·6	44·2	+ 1·2	25	7	•	•	•	•	•	•	6	0·99	+ 0·11	•	•	•	•	• •
p Markree Castle ..	55	9th	34	6th	50·0	36·3	43·0	+ 2·1	31	16	2	30	43·6	•	44·5	•	7	0·75	+ 0·02	5·4	+ 2·4	49	+22	Markree Castle.
a Birr Castle	53	8th	32	7th	50·0	36·0	42·8	+ 1·7	31	17	•	•	•	•	•	•	7	0·82	+ 0·31	*4·6*	+ *1·5*	*42*	+*13*	*Birr Castle.*
b, East .. *p* Armagh	53	6th	34	6th	50·3	36·6	43·3	+ 2·6	32	15	1	28	42·7	+1·9	44·1	+1·1	6	0·52	+ 0·02	4·7	+ 1·8	43	+16	Armagh.
a Donaghadee	51	3rd	35	7th	48·9	37·6	43·1	+ 1·5	26	12	•	•	•	•	•	•	3	0·50	- 0·03	•	•	•	•	• •
											4	27	44·1	+2·5	45·6	+1·3	—	—	—	•	•	•	•	Trinity Coll.
											2	29	•	•	•	•	—	—	—	4·6	+ 1·1	42	+10	Phœnix Park.
10. IRELAND, S.																								
a, East .. *p* Dublin, City	52	3, 4	35	6th	50·4	39·1	44·6	+ 1·7	30	8	0	34	•	•	•	•	6	0·89	+ 0·45	•	•	•	•	Dublin City.
a Kilkenny	51	3, 8	34	7th	49·9	37·4	43·5	+ 1·9	30	13	•	•	•	•	•	•	6	1·48	+ 0·94	•	•	•	•	• •
a Waterford	52	3, 4, 8, 9	35	6, 7	51·3	37·9	44·4	+ 2·1	34	11	•	•	•	•	•	•	6	1·44	+ 0·75	•	•	•	•	• •
a Birr Castle	53	8th	32	7th	50·0	36·0	42·8	+ 1·7	31	17	•	•	•	•	•	•	7	0·82	+ 0·31	4·6	+ 1·5	42	+13	Birr Castle.
a Foynes	51	3, 9	35	6, 9	49·4	37·7	43·4	+ 0·3	28	12	•	•	•	•	•	•	7	1·42	+ 0·76	•	•	•	•	• •
a Cahir	52	7, 8	32	7th	50·2	36·5	43·2	+ 1·1	32	15	•	•	•	•	•	•	7	1·20	—	•	•	•	•	• •
b, West .. *a* Killarney	55	9th	33	6th	51·7	38·4	44·9	+ 1·7	35	10	•	•	•	•	•	•	7	2·68	+ 1·56	•	•	•	•	• •
a Valencia	51	9th	35	6th	49·9	40·3	45·0	+ 0·4	28	5	•	•	•	•	•	•	7	2·71	+ 1·65	3·9	+ 0·4	35	+ 4	Valencia.
a Roche's Point	51	3, 7	38	7th	50·1	40·4	45·1	+ 1·2	28	4	•	•	•	•	•	•	6	1·85	+ 1·18	5·1	—	46	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	4, 9	40	6th	51·4	43·0	47·1	+ 1·7	36	0	•	•	•	•	•	•	7	1·34	+ 0·77	4·5	+ 0·5	41	+ 5	Scilly.
a Jersey, St. Aubins ..	58	5th	41	7th	52·6	43·3	47·8	+ 3·9	41	0	•	•	•	•	•	•	7	2·18	+ 1·86	2·7	- 1·5	24	-14	St. Heliers.
a Guernsey (Villa Carey)	54	4th	36	6th	51·6	42·6	47·0	+ 2·6	35	0	1	30	46·6	+3·2	48·1	+3·1	7	1·65	+ 1·06	4·2	0·0	38	0	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·1 hrs. 46 %; Newcastle (Pendower), 3·1 hrs. 28 %; Ramsgate, 3·8 hrs. 34 %; Rhyl, 4·9 hrs. 46 %; Salcombe, 4·7 hrs. 42 %; Tenby, 4·9 hrs. (+1·0) 44 % (+ 9 %); Torquay, 5·3 hrs. (+1·4) 48 % (+13 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 9th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	43	43	43·0	+0·9	SCOTLAND, W. ..	Lamlash	44	41	42·3	-1·2
	Kirkwall	44	44	44·0	+3·6		Ballantrae .. .	47	43	44·4	+1·6
	Wick	45	45	45·0	+2·2	ENGLAND, N.W. ..	Port Erin	47	45	45·7	+2·0
SCOTLAND, E. ..	Cromarty	43	41	41·9	+2·5		Newquay	49	48	49·0	+2·9
	Pennan Bay	43	42	42·6	+2·7	ENGLAND, S.W. ..	Scilly	48	47	47·2	—
	Aberdeen, Cove Bay	43	43	43·0	+2·6		Plymouth‡	49	47	47·8	+1·9
ENGLAND, N.E. ..	Burnmouth, Berwick	40	39	39·9	+0·6		Salcombe	50	48	48·6	+3·6
	Scarborough	45	41	42·6	+2·3	IRELAND, N.W. ..	Sheephaven	46	46	46·0	+1·2
ENGLAND, E. ..	Shipwash Lightship	46	44	45·5	+5·3		Teelin	47	44	45·5	+0·8
	Margate‡	47	46	46·2	+5·2	IRELAND, S.W. ..	Cleggan	46	42	43·5	-0·8
ENGLAND, S.E. ..	Eastbourne‡	47	46	46·4	+5·0		Seafield	48	44	46·5	+0·8
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

NOTE.—*Some of the maps have been accidentally transposed in issue No. 8 circulated with last week's copies of the Weekly Weather Report. A revised edition of these maps is being circulated with the current number. It is requested that these copies may be substituted for those received last week.*

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TENTH WEEK—March 3rd to March 9th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	51	30	46·6	36·4	41·4	+ 3·3	13	+ 6	22	— 13	6	+ 1	0·82	—0·21	3·3	+0·7	30	+ 7
Eastern.																		
1. SCOTLAND, EAST ...	54	28	48·0	35·6	41·6	+ 3·6	17	+ 7	25	— 13	5	+ 1	0·36	—0·18	3·2	+0·1	29	+ 1
2. ENGLAND, N.E.	54	32	48·2	37·2	42·5	+ 3·0	24	+ 10	13	— 18	4	0	0·53	+0·11	3·2	—0·3	29	— 2
3. ENGLAND, EAST ...	54	31	50·0	38·0	43·8	+ 4·2	29	+ 12	11	— 22	5	+ 2	0·87	+0·53	3·6	+0·2	32	+ 2
4. MIDLAND COUNTIES ...	53	32	49·4	37·6	43·3	+ 3·6	28	+ 10	12	— 21	5	+ 2	1·26	+0·84	3·1	+0·1	28	+ 1
5. ENGLAND, S.E.	53	30	50·4	39·6	44·9	+ 4·1	30	+ 11	7	— 19	6	+ 3	1·17	+0·72	4·3	+0·9	38	+ 8
Western.																		
6. SCOTLAND, WEST ...	50	34	47·2	38·2	42·6	+ 3·0	20	+ 9	11	— 18	6	+ 2	0·99	+0·16	3·9	+0·9	36	+ 8
7. ENGLAND, N.W.	52	34	48·6	39·3	43·8	+ 3·7	24	+ 11	8	— 18	5	+ 1	0·92	+0·36	3·7	+0·7	34	+ 6
8. ENGLAND, S.W.	54	31	50·3	40·2	45·1	+ 3·6	29	+ 9	5	— 17	7	+ 3	1·82	+1·15	4·1	+0·7	37	+ 7
9. IRELAND, NORTH ...	55	32	49·2	37·5	43·2	+ 2·3	27	+ 10	13	— 11	6	+ 2	0·63	+0·02	5·1	+2·1	46	+19
10. IRELAND, SOUTH ...	55	32	50·3	38·2	44·1	+ 1·5	31	+ 8	11	— 8	7	+ 3	1·61	+0·92	4·6	+1·1	41	+10
11. ENGLISH CHANNEL ...	58	36	51·9	43·0	47·3	+ 3·1	37	+ 12	0	— 9	7	+ 3	1·72	+1·14	3·8	—0·4	34	— 4

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 1 Week, March 3rd, 1912, to March 9th, 1912.

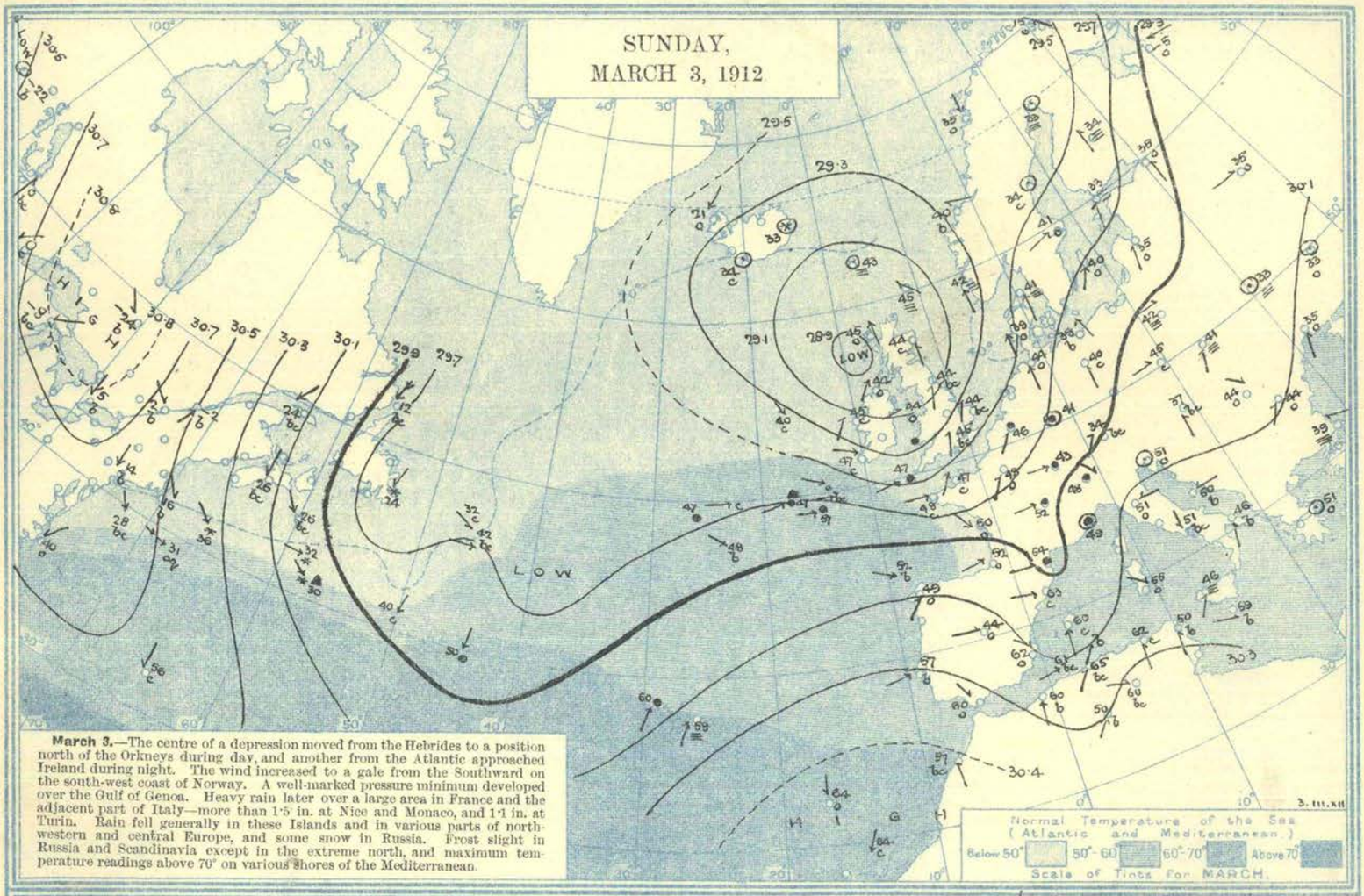
0. SCOTLAND, NORTH ...	51	30	*	*	*	*	13	+ 6	22	— 13	6	+ 1	0·82	—0·21	3·3	+0·7	30	+ 7
Eastern.																		
1. SCOTLAND, EAST ...	54	28	*	*	*	*	17	+ 7	25	— 13	5	+ 1	0·36	—0·18	3·2	+0·1	29	+ 1
2. ENGLAND, N.E	54	32	*	*	*	*	24	+ 10	13	— 18	4	0	0·53	+0·11	3·2	—0·3	29	— 2
3. ENGLAND, EAST ...	54	31	*	*	*	*	29	+ 12	11	— 22	5	+ 2	0·87	+0·53	3·6	+0·2	32	+ 2
4. MIDLAND COUNTIES ...	53	32	*	*	*	*	28	+ 10	12	— 21	5	+ 2	1·26	+0·84	3·1	+0·1	28	+ 1
5. ENGLAND, S.E.	53	30	*	*	*	*	30	+ 11	7	— 19	6	+ 3	1·17	+0·72	4·3	+0·9	38	+ 8
Western.																		
6. SCOTLAND, WEST ...	50	34	*	*	*	*	20	+ 9	11	— 18	6	+ 2	0·99	+0·16	3·9	+0·9	36	+ 8
7. ENGLAND, N.W.	52	34	*	*	*	*	24	+ 11	8	— 18	5	+ 1	0·92	+0·36	3·7	+0·7	34	+ 6
8. ENGLAND, S.W.	54	31	*	*	*	*	29	+ 9	5	— 17	7	+ 3	1·82	+1·15	4·1	+0·7	37	+ 7
9. IRELAND, NORTH ...	55	32	*	*	*	*	27	+ 10	13	— 11	6	+ 2	0·63	+0·02	5·1	+2·1	46	+19
10. IRELAND, SOUTH ...	55	32	*	*	*	*	31	+ 8	11	— 8	7	+ 3	1·61	+0·92	4·6	+1·1	41	+10
11. ENGLISH CHANNEL ...	58	36	*	*	*	*	37	+ 12	0	— 9	7	+ 3	1·72	+1·14	3·8	—0·4	34	— 4

THE YEAR.—Aggregates, &c., for the Period of 10 Weeks, December 31st, 1911, to March 9th, 1912.

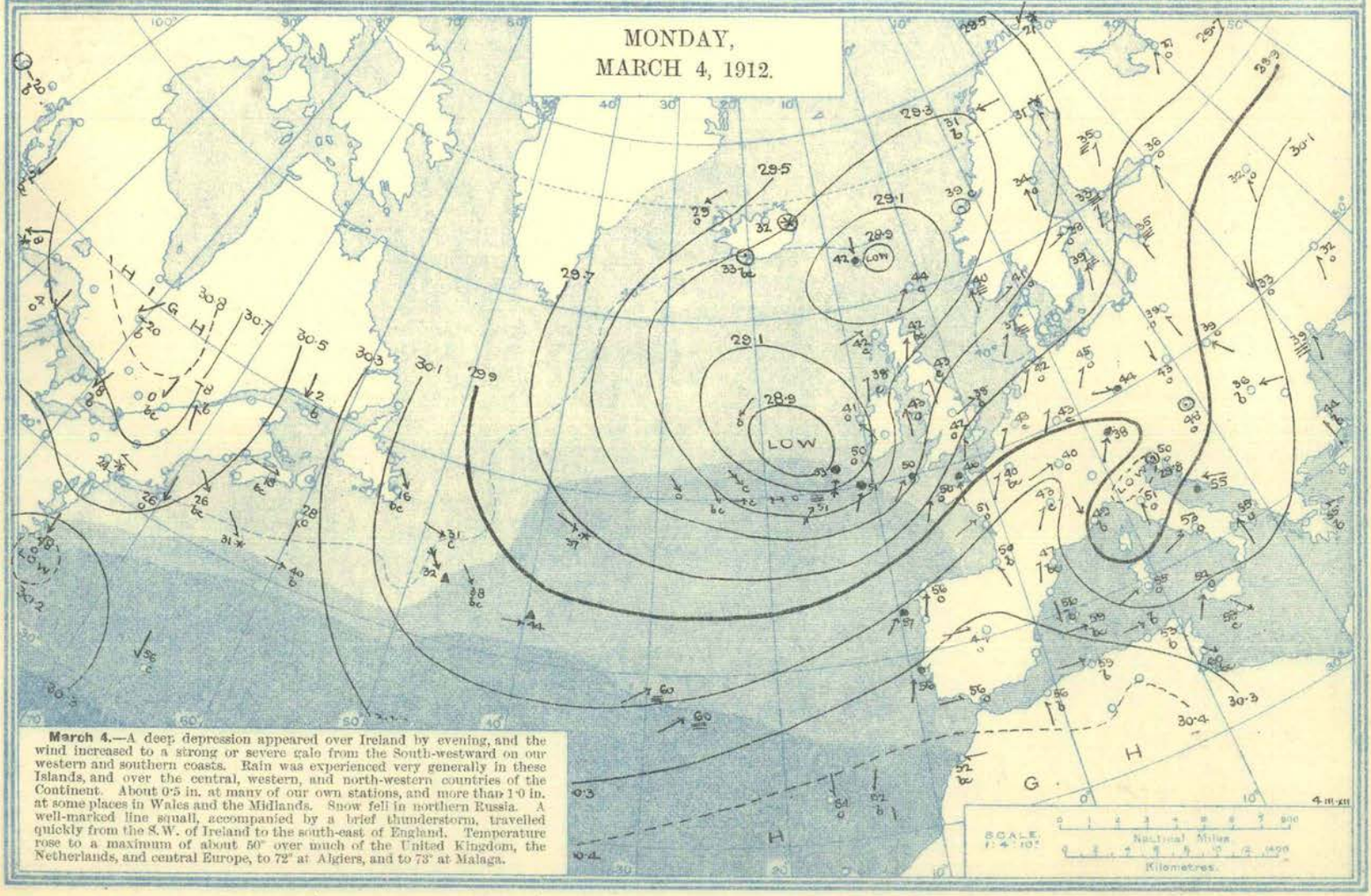
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	87	+ 20	318	— 47	50	— 1	8·39	—3·60	1·7	+0·2	20	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	58	—5	*	*	*	*	92	+ 14	368	— 47	48	+ 9	5·75	+0·22	1·7	—0·4	20	— 4
2. ENGLAND, N.E.	60	10	*	*	*	*	125	+ 31	284	— 48	45	+ 8	5·03	+1·22	1·6	—0·5	18	— 6
3. ENGLAND, EAST ...	60	14	*	*	*	*	161	+ 54	218	—154	44	+ 7	5·16	+1·45	1·6	—0·7	18	— 8
4. MIDLAND COUNTIES ...	60	9	*	*	*	*	155	+ 33	284	— 85	43	+ 7	6·98	+2·38	1·5	—0·5	17	— 6
5. ENGLAND, S.E.	58	13	*	*	*	*	185	+ 48	177	—108	45	+10	6·99	+2·09	1·6	—0·7	18	— 7
Western.																		
6. SCOTLAND, WEST ...	56	12	*	*	*	*	111	+ 11	264	— 27	45	+ 1	9·74	+0·06	1·7	—0·1	19	— 1
7. ENGLAND, N.W.	60	7	*	*	*	*	148	+ 41	239	— 38	44	+ 4	6·70	+0·47	1·9	0·0	21	— 1
8. ENGLAND, S.W.	60	9	*	*	*	*	207	+ 36	164	— 57	53	+13	10·00	+2·33	1·9	—0·4	21	— 4
9. IRELAND, NORTH ...	60	15	*	*	*	*	186	+ 44	184	— 57	40	— 6	7·32	+0·18	2·1	+0·1	24	+ 2
10. IRELAND, SOUTH ...	60	13	*	*	*	*	240	+ 31	141	— 43	53	+11	10·46	+2·22	2·2	—0·1	24	— 1
11. ENGLISH CHANNEL ...	60	27	*	*	*	*	358	+114	41	— 47	46	+ 1	8·05	+1·56	2·4	—0·4	25	— 5

NOTES ON TABLE IV.

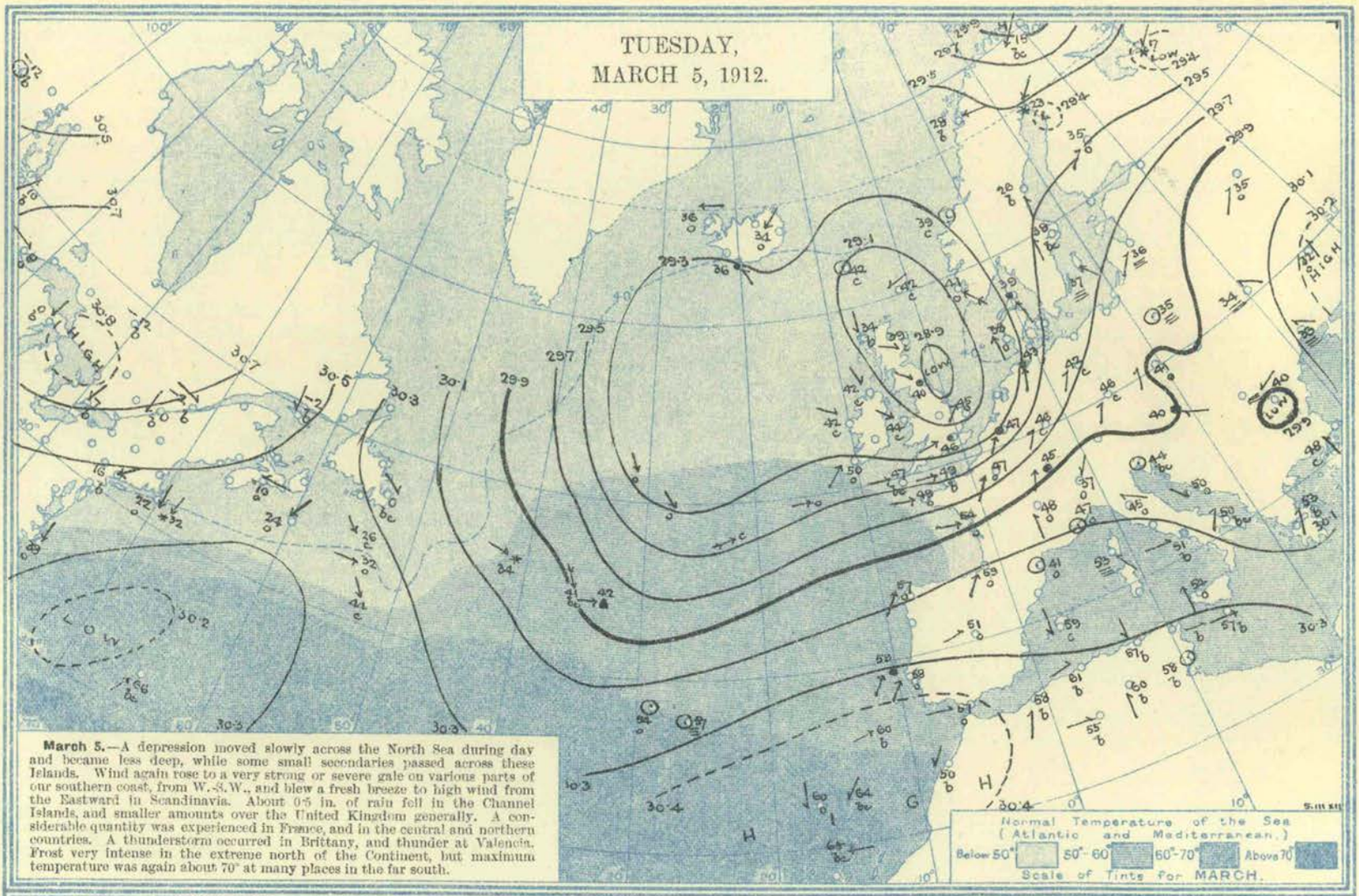
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only



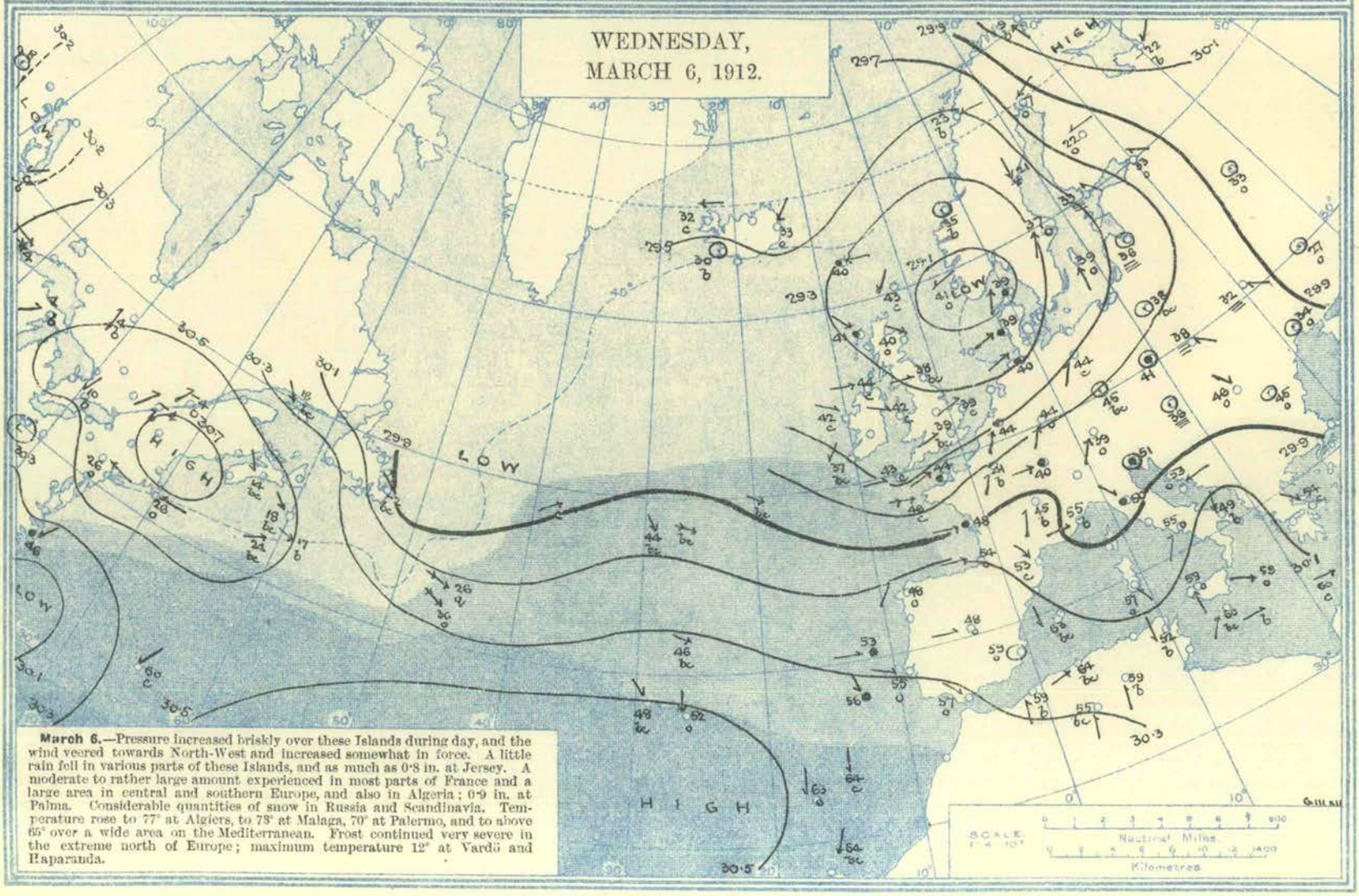
March 3.—The centre of a depression moved from the Hebrides to a position north of the Orkneys during day, and another from the Atlantic approached Ireland during night. The wind increased to a gale from the Southward on the south-west coast of Norway. A well-marked pressure minimum developed over the Gulf of Genoa. Heavy rain later over a large area in France and the adjacent part of Italy—more than 1·5 in. at Nice and Monaco, and 1·1 in. at Turin. Rain fell generally in these Islands and in various parts of north-western and central Europe, and some snow in Russia. Frost slight in Russia and Scandinavia except in the extreme north, and maximum temperature readings above 70° on various shores of the Mediterranean.



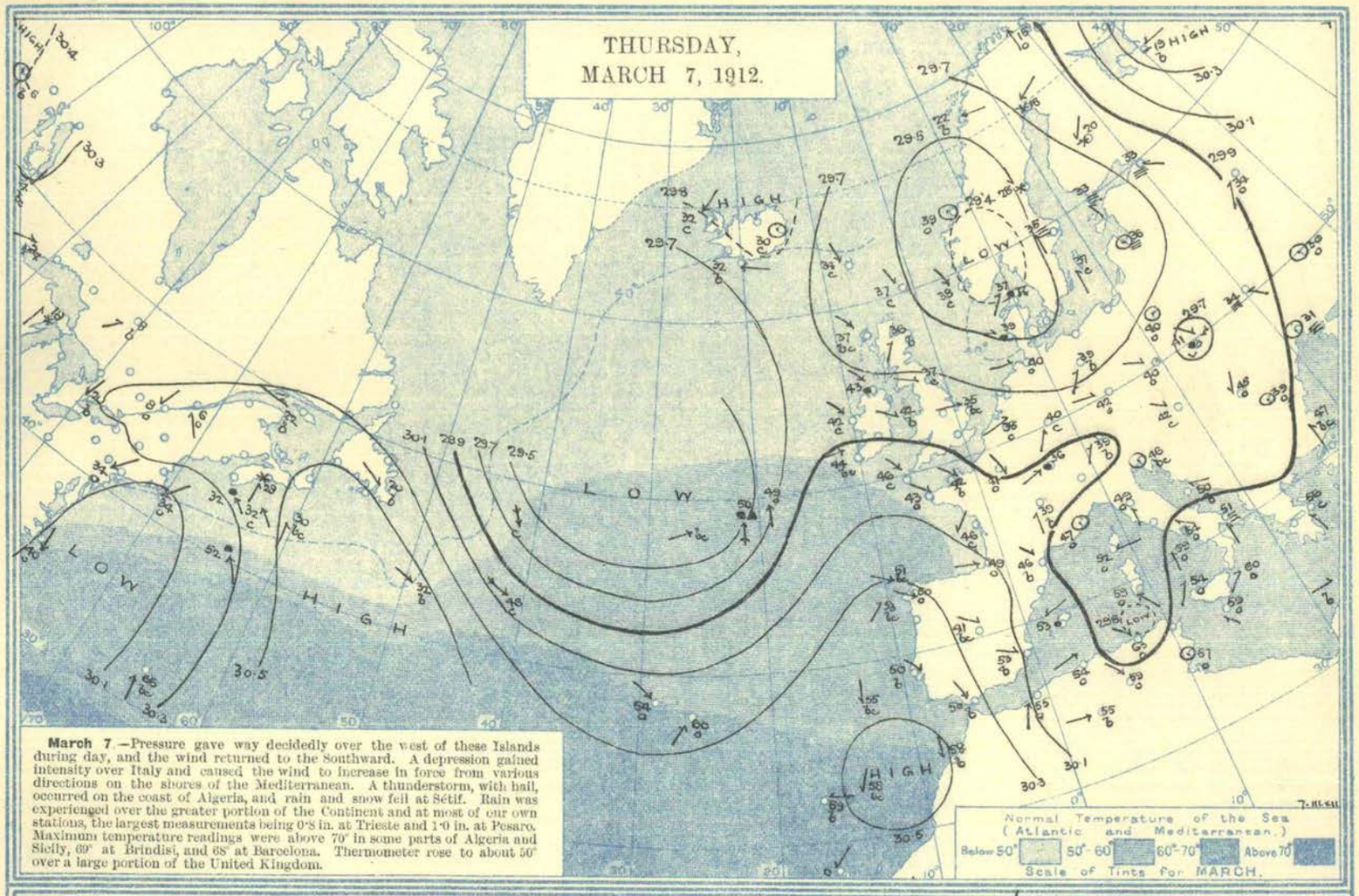
March 4.—A deep depression appeared over Ireland by evening, and the wind increased to a strong or severe gale from the South-westward on our western and southern coasts. Rain was experienced very generally in these Islands, and over the central, western, and north-western countries of the Continent. About 0·5 in. at many of our own stations, and more than 1·0 in. at some places in Wales and the Midlands. Snow fell in northern Russia. A well-marked line squall, accompanied by a brief thunderstorm, travelled quickly from the S.W. of Ireland to the south-east of England. Temperature rose to a maximum of about 50° over much of the United Kingdom, the Netherlands, and central Europe, to 72° at Algiers, and to 73° at Malaga.



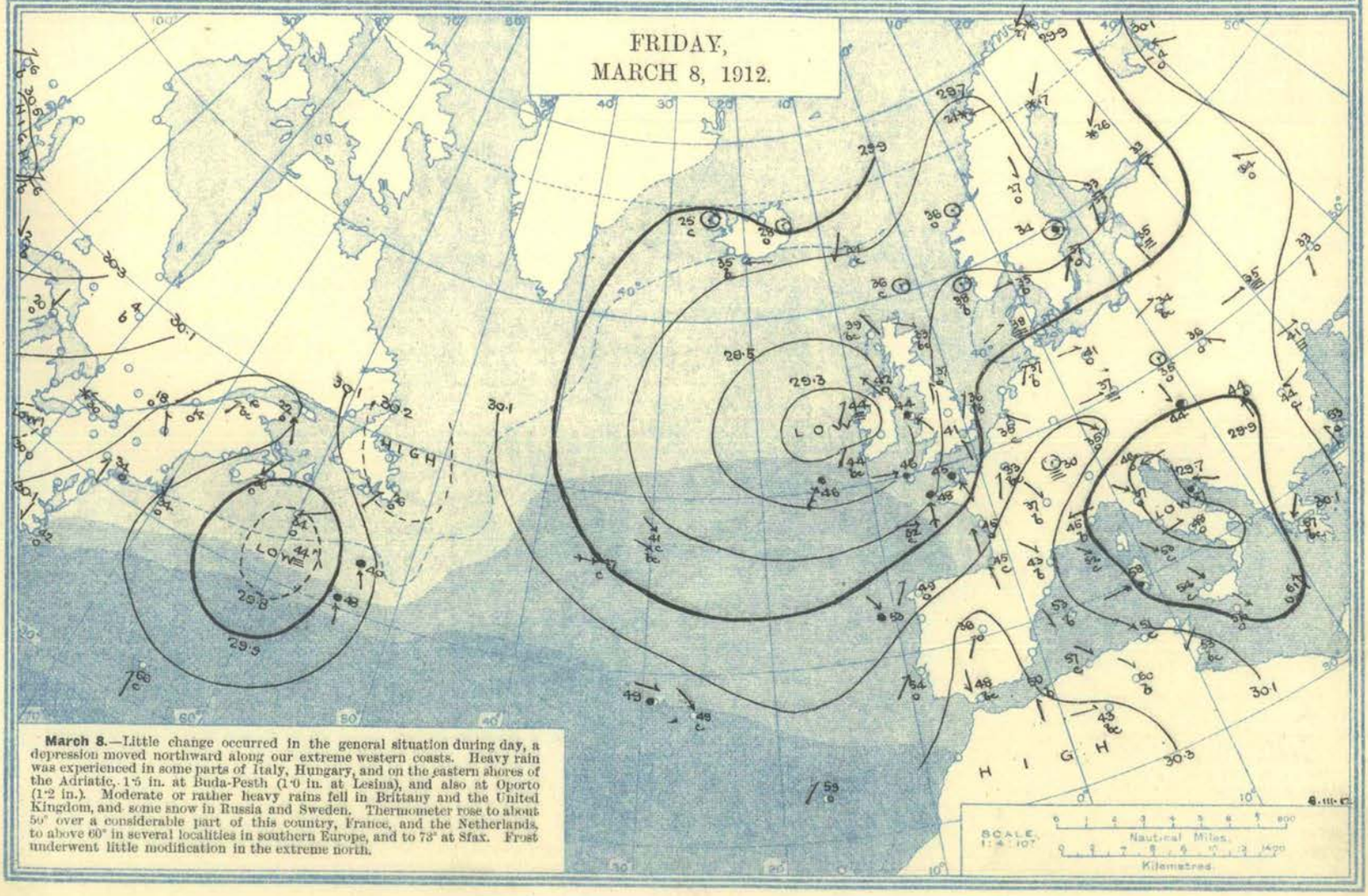
March 5.—A depression moved slowly across the North Sea during day and became less deep, while some small secondaries passed across these Islands. Wind again rose to a very strong or severe gale on various parts of our southern coast, from W.-S.W., and blew a fresh breeze to high wind from the Eastward in Scandinavia. About 0·5 in. of rain fell in the Channel Islands, and smaller amounts over the United Kingdom generally. A considerable quantity was experienced in France, and in the central and northern countries. A thunderstorm occurred in Brittany, and thunder at Valencia. Frost very intense in the extreme north of the Continent, but maximum temperature was again about 70° at many places in the far south.



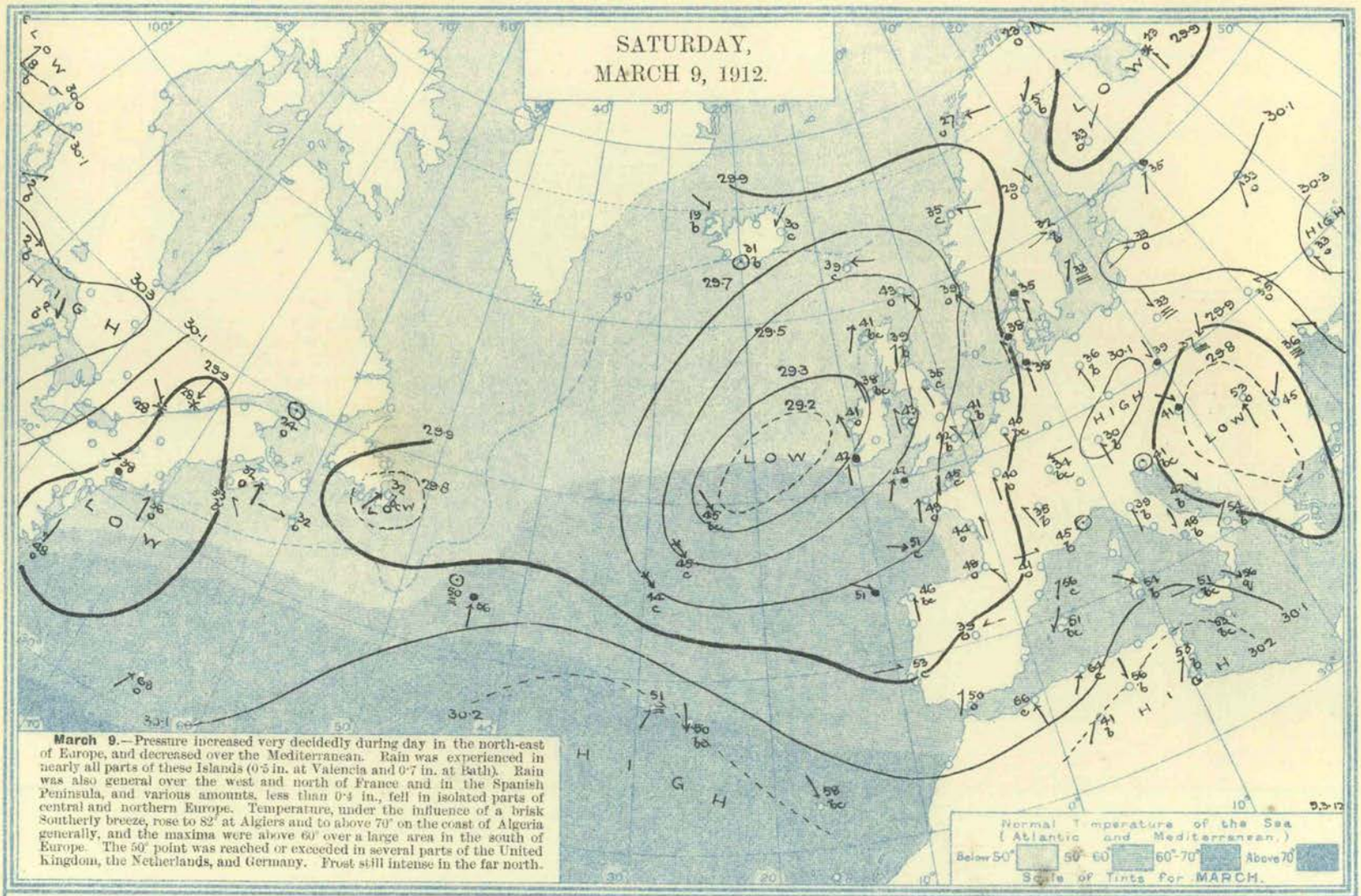
March 6.—Pressure increased briskly over these Islands during day, and the wind veered towards North-West and increased somewhat in force. A little rain fell in various parts of these Islands, and as much as 0·8 in. at Jersey. A moderate to rather large amount experienced in most parts of France and a large area in central and southern Europe, and also in Algeria; 0·9 in. at Palma. Considerable quantities of snow in Russia and Scandinavia. Temperature rose to 77° at Algiers, to 78° at Malaga, 70° at Palermo, and to above 65° over a wide area on the Mediterranean. Frost continued very severe in the extreme north of Europe; maximum temperature 12° at Vardö and Haparanda.



March 7.—Pressure gave way decidedly over the west of these Islands during day, and the wind returned to the Southward. A depression gained intensity over Italy and caused the wind to increase in force from various directions on the shores of the Mediterranean. A thunderstorm, with hail, occurred on the coast of Algeria, and rain and snow fell at Sétif. Rain was experienced over the greater portion of the Continent and at most of our own stations, the largest measurements being 0·8 in. at Trieste and 1·0 in. at Pesaro. Maximum temperature readings were above 70° in some parts of Algeria and Sicily, 69° at Brindisi, and 68° at Barcelona. Thermometer rose to about 50° over a large portion of the United Kingdom.

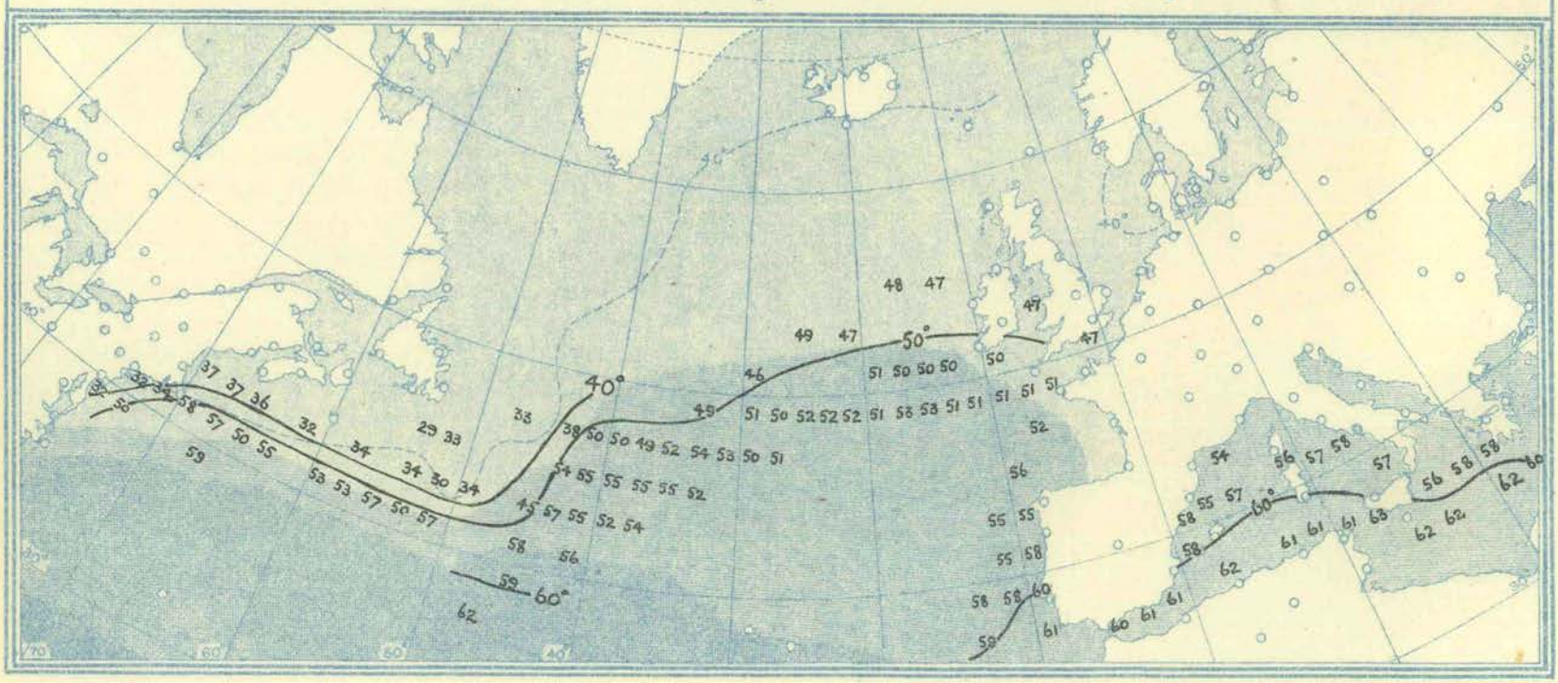


March 8.—Little change occurred in the general situation during day, a depression moved northward along our extreme western coasts. Heavy rain was experienced in some parts of Italy, Hungary, and on the eastern shores of the Adriatic, 1·5 in. at Buda-Pesth (1·0 in. at Lesina), and also at Oporto (1·2 in.). Moderate or rather heavy rains fell in Brittany and the United Kingdom, and some snow in Russia and Sweden. Thermometer rose to about 50° over a considerable part of this country, France, and the Netherlands, to above 60° in several localities in southern Europe, and to 73° at Sfax. Frost underwent little modification in the extreme north.



March 9.—Pressure increased very decidedly during day in the north-east of Europe, and decreased over the Mediterranean. Rain was experienced in nearly all parts of these Islands (0·5 in. at Valencia and 0·7 in. at Bath). Rain was also general over the west and north of France and in the Spanish Peninsula, and various amounts, less than 0·4 in., fell in isolated parts of central and northern Europe. Temperature, under the influence of a brisk Southerly breeze, rose to 82° at Algiers and to above 70° on the coast of Algeria generally, and the maxima were above 60° over a large area in the south of Europe. The 50° point was reached or exceeded in several parts of the United Kingdom, the Netherlands, and Germany. Frost still intense in the far north.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 9TH MARCH, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✻ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* | No. 11. | ELEVENTH WEEK, SUNDAY, MARCH 10TH, TO SATURDAY, MARCH 16TH, 1912. | *Price 6d.* *Annual Subscription Post Paid* £1 10s. 0d.

I.—General Remarks.

Weather continued unsettled in its general character, but some localities in the east and south-east of Great Britain, as well as a few places in the north-west, and in the north-east of Ireland, were rainless on several days. Distant thunder was heard at Swarraton on the 15th, and some sleet or snow was experienced in various parts of Ireland towards the end of the week.

Temperature was again above the average, the excess being 4° in England E. and more than 3° in nearly all parts of Great Britain. The highest of the maxima were recorded, as a rule, on the 13th or 14th, and ranged from 63° in Ireland S. to 55° in Scotland N. The lowest of the minima occurred on rather irregular dates. In Scotland E. (at Balmoral on the 16th) the thermometer fell to 21°, but elsewhere the values ranged from 28° in Scotland W. and England N.W. to 32° in Ireland N., and to 40° in the English Channel. The lowest grass readings reported were 18° at Balmoral, 19° at Newton Rigg, and 22° at Marchmont, Durham, and Worksop. In all parts of the Kingdom the thermometers both at 1 foot and 4 feet below the surface recorded readings considerably in excess of the normal.

Mean Temperature of the Sea. At all stations except Lamlash and Cleggan the water was warmer than during the corresponding week of last year, and at all stations except Cleggan its temperature was above the average.

Rainfall exceeded the normal in most parts of England and Ireland as well as in Scotland W., but just equalled it in England E. and S.E., and was less in Scotland N. and E. At Glencarron on the 12th there was as much as 1·29 in., and at Manchester on the 14th 1·02 in.

Bright Sunshine was less than the average in all districts except Ireland S. and Scotland N., the deficit being large generally. The values varied from more than 4 hours per day at Deerness and Ballinacurra to less than an hour a day at Burnley, Stonyhurst, Manchester and Llangammarch. The percentage of the possible duration ranged from 33 in Ireland S. and 28 in Scotland N. to 14 in the Midland Counties, and to 13 in England E.

Barometer and Wind. The cyclonic disturbances from the Atlantic were less deep than during the preceding week, and it was only their secondaries that passed immediately over the United Kingdom. Owing to a shallow depression over Brittany the wind was Northerly to North-Easterly over England on Monday, but generally the direction was between South and South-West, and the force light or moderate to fresh. A strong breeze was, however, experienced at times on various parts of our western and southern coasts, and also at the mouth of the Humber.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p. 43.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Moderate	Moderate	Heavy	Moderate	Heavy	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Moderate	Scanty	Very scanty	Scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks

SPRING, 2 weeks from March 3rd, 1912.	Warmth ...	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0
	Rainfall ...	0 * 0	0 * 0	2 * 0	1 * 0	2 * 0	1 * 0	0 * 0	1 * 0	2 * 0	0 * 0	1 * 0	2 * 0
	Sunshine ...	1 * 0	0 * 0	0 * 1	0 * 1	0 * 1	1 * 1	1 * 0	1 * 1	1 * 1	1 * 1	1 * 0	0 * 1

PAST SEASONS.

SPRING, 1911. Mar. 5th-June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th-Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd-Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911-12. Dec. 3rd-March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(23547—24.) Wt. 113—4. 450. 3/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hrs.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*51*	*14th*	*33*	*16th*	*46·5*	*38·9*	*42·6*	—	*17*	*9*			41·9				*6*	*0·93*	—	*2·8*	—	*25*	—	*Baltasound.*
a Lerwick	50	14th	35	16th	45·9	40·1	42·9	+ 4·5	14	5							6	0·96	—	4·4	+ 1·2	39	+11	Deerness.
a, Islands .. *a* Stornoway	50	10, 13	32	11th	47·9	37·3	42·4	+ 3·0	23	13							6	1·24	+ 0·31	3·0	- 0·2	26	- 2	Stornoway.
a Castlebay, Barra Isd. .	*49*	*13th*	*37*	*16th*	*47·1*	*41·6*	*44·3*	+ *2·7*	*18*	*1*							*6*	*1·04*	—	*2·6*	—	*23*	—	*Castlebay.*
a Wick	54	14th	33	16th	47·1	38·4	42·6	+ 3·3	19	10							5	0·35	- 0·15					
p Strathpeffer ..	55	13th	29	16th	47·6	34·3	40·8	+ 2·2	16	30							4	0·34	- 0·26	2·3	- 0·5	20	- 5	Strathpeffer.
b, Mainland. *p* Glencarron ..	51	10, 11, 14	29	11th	48·2	36·1	42·0	+ 4·0	17	24							5	2·43	+ 0·66					
p Fort Augustus..	53	11, 13	31	16th	50·1	38·1	43·9	+ 4·9	30	11							5	0·38	- 0·45	3·0	+ 0·6	26	+ 5	Fort Augustus.
p Fort William ..	53	14th	31	11th	49·3	37·7	43·3	+ 3·1	27	12							5	1·34	- 0·18					
1. SCOTLAND, E.																								
p Gordon Castle..	55	13, 14	32	16th	51·3	38·4	44·7	+ 4·7	34	10	4	20	41·0	+3·6	40·9	+2·7	—	—	—	2·6	—	23	—	Crathes S.
a Nairn	58	13th	28	16th	50·7	35·0	42·6	+ 3·3	34	20							2	0·15	- 0·36	*3·7*	—	*33*	—	*Gordon Castle.*
a Aberdeen ..	57	13th	31	16th	49·9	37·4	43·5	+ 3·7	30	13					41·7	+2·3	7	0·21	- 0·19	3·0	—	26	—	Nairn.
a Balmoral ..	53	14th	21	16th	48·4	31·9	39·9	+ 4·4	18	38	4	18					4	0·65	+ 0·12	2·5	- 1·2	22	-10	Aberdeen.
p Crieff	*57*	13th	30	16th	48·4	35·7	41·9	+ 2·1	18	25							5	0·19	- 0·45					Balmoral.
a Leith	53	13, 14	32	16th	49·9	38·6	44·1	+ 2·9	29	10							5	1·11	+ 0·42	2·6	—	23	—	Balruddery.
p West Linton ..	49	13, 14	25	18th	47·4	33·1	40·0	+ 2·2	15	33					40·9		4	0·30	- 0·05					
p Marchmont ..	55	13th	27	16th	49·3	35·7	42·3	+ 3·7	29	18	3	22	41·4	+3·9			5	0·42	—	*2·4*	—	*21*	—	*West Linton.*
																	5	0·31	- 0·24	2·7	- 0·7	24	- 6	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	59	13th	29	12th	51·6	38·3	44·8	+ 5·0	35	10	2	26	41·7	+4·5	41·6	+2·4	5	0·11	- 0·44	2·5	—	22	—	Cockle Park.
a Shields	57	13, 14	30	16th	50·9	35·3	42·9	+ 2·6	34	19							5	0·54	+ 0·12					
p Durham	56	13th	30	12th	49·9	37·4	43·5	+ 3·9	30	13	2	22					4	0·32	- 0·06	2·9	- 0·6	25	- 5	Durham.
a, North .. *p* Rounton	56	14th	30	16th	49·9	36·8	43·2	+ 3·5	30	15	3	28	42·1				5	0·93	+ 0·52					Rounton.
a West Witton ..	*53*	*13th*	*29*	*16th*	*49·1*	*37·4*	*43·1*	—	*27*	*13*	2	24	41·5		40·9		*4*	*0·30*	—					*West Witton.*
p Scarborough ..	58	13, 14	33	12th	51·4	40·1	45·6	+ 4·7	33	5							4	0·78	+ 0·37	3·0	—	26	—	Scarborough.
p York																	—	—	—					York.
a Spurn Head ..	55	14th	33	12, 13	48·1	37·0	42·4	+ 1·7	24	14	3	26	42·9	+3·9	43·0	+2·1	5	0·50	+ 0·20	*1·9*	—	*16*	—	*Hull.*
b, South .. *a* Lincoln	57	14th	33	11, 12	50·6	38·4	44·3	+ 3·2	31	10			41·7	+3·6	43·0	+3·0	4	0·59	+ 0·24					Lincoln.
a Fulbeck	56	14th	33	12, 16	50·0	38·3	44·0	+ 3·0	30	10	3	25	43·6	+3·4	44·1	+2·1	5	0·82	+ 0·47	2·0	—	17	—	Rauceby.
																	—	—	—	2·2	—	19	—	Skegness.
3. ENGLAND, E.											0	34	44·0	+4·1	44·1	+2·9	—	—	—	*1·9*	—	*16*	—	*Lowestoft.*
p Cromer	54	14th	37	11th	49·6	40·6	45·0	+ 4·8	27	4							6	0·36	—	1·8	—	16	—	Cromer.
p Hillington ..	57	14th	32	12th	50·3	37·6	43·8	+ 3·2	31	12	3	25					6	0·72	+ 0·30	1·5	- 2·1	13	-18	Hillington.
a, North .. *a* Yarmouth ..	53	14th	38	11, 16	49·3	40·7	44·9	+ 5·0	26	4			44·1	+4·1	45·0	+2·5	5	0·32	- 0·01	2·1	—	18	—	Yarmouth
a Norwich	54	14th	34	11th	51·1	40·0	45·4	+ 5·0	32	6	2	28	43·6				4	0·30	—	*1·9*	—	*16*	—	*Norwich.*
p Geldeston	57	15th	35	11th	51·7	39·9	45·6	+ 4·8	34	6							5	0·28	- 0·07	1·5	- 2·4	13	-21	Geldeston.
p Cambridge	58	14th	34	11, 16	50·9	39·0	44·8	+ 3·5	32	8	4	29	44·5	+4·0	45·2	+3·0	4	0·24	- 0·08	1·2	- 2·6	10	-23	Cambridge.
a Felixstowe ..	*52*	*14th*	*36*	*16th*	*49·3*	*41·0*	*45·0*	+ *4·0*	*25*	*3*							*5*	*0·23*	—	*2·0*	—	*17*	—	*Felixstowe.*
a Clacton-on-Sea ..	52	14th	36	12, 16	49·7	40·9	45·2	+ 4·7	27	3	0	32	45·6	+4·4	46·6	+3·0	3	0·21	—	2·0	—	17	—	Clacton.
b, South .. *a* Rothamsted ..	56	14th	31	11th	49·4	38·7	43·9	+ 3·6	27	9							6	0·29	- 0·13	1·5	- 2·1	13	-19	Rothamsted.
a Shoeburyness ..	*55*	*14th*	*35*	*16th*	*50·7*	*40·4*	*45·4*	+ *3·4*	*31*	*4*	1	29	46·0	+5·2			*3*	*0·10*	- *0·16*	*2·1*	—	*18*	—	*Southend.*
p Tottenham	58	14th	34	11th	50·4	40·1	45·1	+ 3·6	30	5	0	31			45·9	+3·2	3	0·21	—	1·4	—	12	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	54	14th	30	16th	48·6	38·3	43·3	+ 4·0	25	10	2	26	42·2	+4·4	42·0	+2·2	—	—	—	*1·3*	—	*11*	—	*Huddersfield.*
a Bawtry	58	14th	31	12th	50·9	37·6	44·1	+ 2·9	33	12	2	26	42·0	+3·5	42·0	+2·4	4	0·75	+ 0·27	2·0	—	17	—	Harrogate.
p Buxton	*52*	*14th*	*32*	*16th*	*48·0*	*36·7*	*42·2*	+ *4·6*	*24*	*15*	3	22	42·9		43·0		5	0·68	+ 0·34	1·8	- 1·3	16	-12	Worksop.
a East .. *a* Nottingham ..	57	13th	32	12th	50·4	38·9	44·5	+ 3·7	31	9	3	28	42·1	+4·9	42·5	+2·4	*5*	*1·83*	+ *0·90*	*2·1*	—	*18*	—	*Buxton.*
p Birmingham, Edgbsn.	54	13, 14	33	16th	48·4	38·0	43·1	+ 2·8	25	11	2	29	43·0	+4·7	42·3	+3·1	4	0·63	+ 0·28	1·8	—	16	—	Nottingham.
a Raunds	59	14th	32	16th	51·1	38·0	44·4	+ 4·0	34	11	2	28	43·2	+3·7	44·6	+1·9	4	0·91	+ 0·51	1·2	—	10	—	Birmingham.
a Oxford	56	14th	34	16th	49·9	39·9	44·8	+ 3·3	28	6	1	29	43·1		44·7		4	0·24	—					Raunds.
											2	28					5	0·45	+ 0·13	1·4	- 2·1	12	-18	Oxford.
a Cheadle	55	14th	31	16th	47·6	36·6	41·9	+ 2·4	16	21	2	27	41·9	+3·7	42·2	+2·1	—	—	—	1·6	—	14	—	Sheffield.
p Shrewsbury	58	13th	31	12th	50·4	37·7	43·9	+ 2·1	31	12	3	28					4	1·40	+ 0·90					Cheadle.
b, West .. *a* Hereford	56	13th	32	16th	50·4	38·1	44·1	+ 2·6	31	11	1	30					4	0·76	—					Shrewsbury.
a Cirencester	59	15th	32	16th	52·9	38·0	45·2	+ 5·2	39	11	0	32	44·0		44·4		3	0·57	+ 0·18					Hereford.
a Bath	59	13th	32	16th	53·9	40·4	47·0	+ 5·2	42	4			46·0	+4·4	45·8	+2·4	5	0·83	+ 0·37	1·3	- 2·3	11	-20	Cirencester.
																	5	0·48	+ 0·01	1·9	—	16	—	Bath.
5. ENGLAND, S.E.											0	31	45·7	+5·4	47·2	+3·9	—	—	—					Canterbury.
p Kew	58	14th	34	11th	51·0	40·3	45·5	+ 3·9	32	5	2	27	45·1	+4·6	46·0	+3·1	4	0·18	- 0·18	1·4	- 1·8	12	-16	Kew.
a Marlborough	53	14th	29	16th	49·7	36·9	43·1	+ 3·0	29	14	2	23					5	0·79	+ 0·25	1·5	- 1·7	13	-15	Marlborough.
a Margate	56	15th	39	14, 16	51·1	41·3	46·1	+ 4·7	32	2	—	—	45·6	+4·9	45·7	+3·8	4	0·21	- 0·13	2·4	- 1·4	21	-12	Margate.
a Wisley, Surrey ..	57	14th	33	16th	51·3	40·6	45·8	+ 3·6	32	4	2	24	45·4	+5·0	45·6	+3·3	5	0·23	—	1·9	—	16	—	Wisley
a Swarraton	53	14th	31	16th	50·0	38·6	44·1	+ 3·7	29	10	2	28	46·5	+5·1	46·8	+3·5	7	0·60	+ 0·10	2·7	—	23	—	Worthing.
a Tunbridge Wells ..	54	11, 14	33	11, 16	50·6	38·9	44·6	+ 3·4	31	9	2	29	44·4	+4·8			6	0·34	- 0·16	1·9	- 1·8	16	-18	Tunbridge Wells.
a Dungeness	52	15th	34	11th	49·9	39·9	44·8	+ 3·3	28	6							2	0·20	- 0·16	2·3	—	20	—	Littlestone.
p Hastings..	53	11th	34	16th	50·1	41·1	45·5	+ 3·6	28	3	1	29	46·3		46·2		*2·3*	- *2·0*	*2·0*	- *1·7*	*Hastings.*
p Southampton	55	11th	33	16th	51·0	40·6	45·7	+ 2·4	32	4	2	23					6	0·30	- 0·18	2·3	- 2·0	20	-17	Southampton.
a Ventnor	55	11th	37	12th	51·0	41·7	46·2	+ 2·9	31	1							5	0·68	+ 0·19	1·4	- 2·5	12	-22	Ventnor.
											2	28	46·2	+3·8	47·1	+2·7	6	0·42	- 0·04	3·1	- 1·3	27	-12	Portsmouth.
													46·5		46·9		—	—	—	*1·8*	—	*16*	—	Eastbourne.
													45·9		45·9		—	—	—	2·6	- 1·6	22	-14	*Bournemouth.*
LONDON.															46·0		—	—	—	*1·9*	—	*16*	—	*Brighton.*
a Westminster	*59*	*14th*	*35*	*16th*	*52·1*	*41·1*	*46·4*	+ *4·5*	*35*	*3*	1	28					—	—	—	*2·7*	- *1·6*	*23*	- *12*	*Westminster.*
a Greenwich	*61*	*14th*	*33*	*16th*	*52·9*	*40·0*	*46·3*	+ *3·5*	*39*	*6*	2	29					*4*	*0·20*	- *0·18*	*1·2*	- *0·9*	*10*	- *8*	*Greenwich.*
a Hampstead	*56*	*14th*	*32*	*16th*	*48·9*	*38·6*	*43·6*	—	*25*	*10*	2	28					*3*	*0·19*	- *0·18*	*1·9*	- *1·2*	*16*	- *10*	*Hampstead.*
a Camden Square ..	*60*	*14th*	*33*	*16th*	*52·0*	*40·0*	*45·8*	—	*35*	*6*	3	26					*5*	*0·25*	—	*2·0*	—	*17*	—	*Camden Square.*
											0	31					*4*	*0·26*	—	*1·8*	—	*16*	—	
6. *a*, SCOTLAND, W.																								
a Poltalloch	59	13th	33	16th	49·9	38·7	44·1	+ 3·8	29	9							6	1·23	+ 0·43					
p Glasgow	53	14th	34	16th	47·7	39·9	43·7	+ 3·7	21	6	1	28					5	0·55	- 0·01	2·4	- 0·2	21	- 2	Glasgow.
p Rothesay	51	14th	34	16th	48·0	39·0	43·4	+ 2·5	22	8					43·0	+1·2	6	1·20	+ 0·45					
a Kilmarnock	53	14th	32	16th	49·4	38·9	44·0	+ 3·8	27	9							4	0·93	—	*3·6*	—	*32*	—	*Kilmarnock.*
a Colmonell	54	13, 14	30	16th	50·9	37·9	44·2	+ 3·0	33	11	2	27					5	1·14	+ 0·38					
p Dumfries	53	13th	28	16th	48·7	38·7	42·5	+ 2·0	26	15	3	23	42·1		42·1		5	0·60	- 0·05	*3·0*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse	53	11th	28	16th	49·9	36·3	42·9	+ 2·7	30	16							5	1·19	+ 0·32					
b I. OF MAN.																								
p Douglas	52	13th	35	16th	48·1	40·0	43·9	+ 2·5	22	6	1	29					5	1·16	+ 0·50	3·1	- 1·0	27	- 9	Douglas.
											3	23	42·0	+4·2	42·5	+2·4	—	—	—	*0·8*	—	*7*	—	*Burnley.*
											1	30					—	—	—	1·7	—	15	—	Hoylake.
7. *a*, ENGLAND, N.W.																				2·8	—	24	—	Aspatria.
p Aspatria	52	13th	32	11th	49·3	37·9	43·4	+ 3·8	27	11	4	25	43·0		43·7		3	0·59	- 0·07	2·3	- 1·1	20	-10	Newton Rigg.
p Newton Rigg	53	13th	28	16th	48·7	36·0	42·2	+ 3·4	27	17	4	19	41·8	+2·8	41·7	+1·9	5	0·18	- 0·41	0·9	- 2·4	8	-21	Stonyhurst.
p Stonyhurst	51	13, 14	32	16th	48·4	39·4	43·8	+ 4·0	24	7	1	25					4	1·26	+ 0·45	1·7	- 1·6	15	-14	Blackpool.
p Blackpool	53	11th	34	12th	49·0	40·0	44·4	+ 3·7	25	6							4	0·98	+ 0·44					*Prestwich.*
p Manchester, Prestwich																	—	—	—	*1·1*	—	*10*	—	*Liverpool.*
a Liverpool (Bidston) ..	55	14th	36	12, 13, 16	49·7	39·4	44·4	+ 2·0	28	7	2	29	43·3	+3·6	43·0	+2·2	6	0·88	+ 0·46	*1·3*	- *2·2*	*11*	- *19*	*Southport.*
a Hawarden Bridge ..	56	14th	31	12th	51·3	39·4	45·2	+ 2·9	33	7	0	33	43·5	+4·8	44·8	+3·1	4	0·38	+ 0·04	*0·7*	—	*6*	—	*Manchester (City).*
																	—	—	—					
b, NORTH WALES.																								
p Llandudno	54	10, 11	37	12, 15, 16	51·4	40·3	45·7	+ 3·2	33	5							3	0·17	- 0·33	2·0	- 1·5	17	-13	Llandudno.
a Holyhead	54	13th	38	10, 11	49·6	40·7	45·0	+ 2·6	26	4							5	0·98	+ 0·40	1·8	—	18	—	Aberdovey
p Bettws-y-Coed ..	54	11, 13, 14	34	12, 16	51·9	38·9	45·2	+ 3·1	35	9	2	30	44·0	+3·8	45·0	+2·4	4	0·81	—	1·5	—	13	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·0	—	17	—	Aberystwyth.
a Llangammarch Wells	52	13th	30	12th	49·1	35·4	42·1	+ 2·1	28	18	4	25	43·3	+3·4	44·7	+1·9	6	2·01	—	0·9	—	8	—	Llangammarch
a Pembroke	52	11th	40	12th	48·7	42·9	45·7	+ 3·2	26	0	•	•	•	•	•	•	6	1·23	+ 0·72	1·7	- 2·3	15	-20	Pembroke.[Wells
p Cardiff	54	11th	34	16th	50·9	39·3	44·9	+ 2·5	32	8	2	25	45·5	+5·5	45·1	+2·7	6	1·35	+ 0·66	*2·2*	—	*19*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	56	14th	34	16th	51·6	40·6	45·9	+ 4·1	33	4	0	31	•	•	•	•	7	1·05	+ 0·53	*1·9*	—	*16*	—	*Clifton.*
a Shaftesbury	52	11th	32	16th	48·7	37·7	43·0	+ 2·9	25	12	•	•	44·8	•	•	•	6	0·59	+ 0·08	•	•	•	•	Shaftesbury.
a Arlington	52	11th	30	12th	49·0	37·1	42·9	+ 2·3	27	14	•	•	46·9	•	•	•	5	2·01	+ 1·15	2·5	- 1·7	22	-14	Newquay.
a Cullompton	55	11th	32	16th	52·1	39·6	45·7	+ 3·5	36	7	1	27	46·4	•	•	•	7	1·78	+ 1·21	1·3	- 2·5	11	-21	Cullompton.
a Portland	52	11th	39	12th	49·0	43·0	45·9	+ 3·2	27	0	•	•	•	•	•	•	5	0·30	—	*3·2*	—	*19*	—	*Weymouth.*
p Plymouth	53	11, 15	34	16th	52·0	41·2	46·4	+ 2·9	34	2	2	27	46·9	+4·0	•	•	7	1·52	+ 0·92	2·0	- 2·1	17	-18	Plymouth.
p Falmouth	54	13th	39	15, 16	49·9	42·3	46·0	+ 2·0	28	0	•	•	•	•	•	•	7	1·65	+ 0·92	1·9	- 2·4	16	-21	Falmouth.
9. IRELAND. N.																								
a Malin Head	52	13th	36	16th	48·0	39·6	43·7	+ 2·3	22	7	•	•	•	•	•	•	6	0·26	- 0·24	•	•	•	•	• •
a, West .. *a* Blacksod Point ..	52	13th	36	15th	49·6	41·1	45·2	+ 2·0	26	3	•	•	•	•	•	•	6	1·20	+ 0·33	•	•	•	•	• •
p Markree Castle ..	55	13th	32	15th	49·6	37·0	43·1	+ 2·0	29	14	2	29	44·4	•	44·7	•	6	0·84	+ 0·12	2·4	- 0·9	21	- 8	Markree Castle.
a Birr Castle ..	58	13th	32	12th	52·3	36·1	44·0	+ 2·6	39	17	•	•	•	•	•	•	7	0·65	+ 0·12	*3·1*	- *0·4*	*27*	- *3*	*Birr Castle.*
p Armagh	54	13th	35	16th	50·3	39·4	44·7	+ 3·6	30	7	0	31	43·2	+1·9	43·9	+0·8	6	0·39	- 0·11	2·2	- 1·0	19	- 9	Armagh.
b, East .. *a* Donaghadee ..	56	14th	34	11, 16	49·6	38·1	43·7	+ 1·8	28	11	•	•	•	•	•	•	2	0·44	- 0·05	•	•	•	•	• •
											5	24	44·8	+2·7	?	?	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											4	25	•	•	•	•	—	—	—	3·8	0·0	33	0	Phœnix Park.
p Dublin, City	59	13th	34	11th	52·3	40·4	46·2	+ 3·0	36	4	0	33	•	•	•	•	6	0·22	- 0·21	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny ..	62	13th	32	12th	52·9	37·0	44·7	+ 2·7	40	14	•	•	•	•	•	•	7	0·67	+ 0·17	•	•	•	•	• •
a Waterford ..	56	13th	32	16th	52·1	38·0	44·8	+ 2·0	36	11	•	•	•	•	•	•	4	0·58	- 0·04	•	•	•	•	• •
a Birr Castle	58	13th	32	12th	52·3	36·1	44·0	+ 2·6	39	17	•	•	•	•	•	•	7	0·65	+ 0·12	3·1	- 0·4	27	- 3	Birr Castle.
a Foynes	63	13th	36	11, 15	53·7	39·9	46·6	+ 3·3	41	6	•	•	•	•	•	•	6	0·46	- 0·17	•	•	•	•	• •
b, West .. *a* Cahir	61	13th	29	11th	52·3	36·5	44·2	+ 1·7	39	15	•	•	•	•	•	•	6	0·56	—	•	•	•	•	• •
a Killarney	63	13th	35	11, 15	54·5	40·1	47·1	+ 3·0	44	5	•	•	•	•	•	•	5	0·82	- 0·23	•	•	•	•	• •
a Valencia	53	10, 13, 16	38	11, 15	51·3	41·7	46·4	+ 1·7	32	1	•	•	•	•	•	•	6	1·43	+ 0·40	3·8	- 0·1	33	- 1	Valencia.
a Roche's Point	54	14th	37	11, 15, 16	51·0	40·3	45·6	+ 1·5	32	5	•	•	•	•	•	•	7	0·48	- 0·17	4·5	—	39	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	10th	40	16th	51·1	43·7	47·3	+ 1·8	37	0	•	•	•	•	•	•	6	0·69	+ 0·15	2·8	- 1·6	24	-14	Scilly.
a Jersey, St. Aubins ..	57	11th	40	12, 13, 16	52·0	42·3	47·0	+ 2·5	35	0	•	•	•	•	•	•	6	0·91	+ 0·40	2·4	- 2·2	21	-19	St. Heliers.
a Guernsey (Villa Carey)	57	11th	40	16th	51·4	44·0	47·6	+ 2·9	39	0	0	33	47·2	+3·2	48·0	+2·8	6	0·85	+ 0·29	2·9	- 1·7	25	-15	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·8 hrs. 24 %; Newcastle (Pendower), hrs. %; Ramsgate, 2·4 hrs. 21 %; Rhyl, 2·3 hrs. 20 %; Salcombe, 2·5 hrs. 22 %; Tenby, 1·7 hrs. (- 2·6) 15 %(- 23 %); Torquay, 2·0 hrs. (- 2·3) 17 %(- 20 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 16th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	—			°	°	°	
SCOTLAND, N. ..	Lerwick	—	—	—	—	SCOTLAND, W. ..	Lamlash	46	42	43·9	+0·3
	Kirkwall	45	45	45·0	+4·6		Ballantrae	50	43	45·3	+2·3
	Wick	45	45	45·0	+2·1	ENGLAND, N.W. ..	Port Erin	47	45	45·8	+2·1
SCOTLAND, E. ..	Cromarty	43	41	42·4	+2·8	ENGLAND, S.W. ..	Newquay	49	49	49·0	+2·5
	Pennan Bay	43	43	43·0	+2·9		Scilly	51	47	48·7	—
	Aberdeen, Cove Bay	43	43	43·0	+2·3		Plymouth‡	50	48	48·5	+2·4
ENGLAND, N.E. ..	Burnmouth, Berwick	41	40	40·5	+0·9		Salcombe	50	47	49·2	+4·1
	Scarborough	46	40	42·5	+2·2	IRELAND, N.W. ..	Sheephaven	46	46	46·0	+1·1
ENGLAND, E. ..	Shipwash Lightship	47	43	46·3	+5·9		Teelin	47	43	45·4	+0·5
	Margate‡	47	46	46·7	+5·2	IRELAND, S.W. ..	Cleggan	45	42	43·3	-1·3
ENGLAND, S.E. ..	Eastbourne‡	46	45	45·6	+3·6	IRELAND, E.	Seafield	48	45	46·7	+0·5
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the Introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree' signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

ELEVENTH WEEK—March 10th to March 16th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	55	29	48·0	37·4	42·6	+ 3·5	24	+ 15	13	− 18	5	0	1·01	−0·05	3·2	+0·4	28	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	58	21	49·4	35·7	42·4	+ 3·1	29	+ 14	18	− 16	5	+ 1	0·42	−0·11	2·7	−0·7	24	− 4
2. ENGLAND, N.E.	59	29	50·3	37·7	43·8	+ 3·1	31	+ 12	12	− 15	5	+ 2	0·57	+0·15	2·5	−1·5	22	−13
3. ENGLAND, EAST ...	58	31	50·3	39·7	44·9	+ 4·0	30	+ 6	6	− 23	5	+ 2	0·33	0·00	1·6	−2·4	13	−21
4. MIDLAND COUNTIES ...	59	30	50·4	38·3	44·2	+ 3·2	31	+ 7	10	− 19	4	+ 1	0·70	+0·33	1·6	−1·8	14	−16
5. ENGLAND, S.E.	58	29	50·6	40·0	45·1	+ 3·1	30	+ 6	6	− 16	5	+ 2	0·40	0·00	2·1	−1·7	18	−15
Western.																		
6. SCOTLAND, WEST ...	59	28	49·1	38·4	43·6	+ 2·9	26	+ 10	10	− 15	5	+ 1	1·00	+0·22	2·8	−0·6	24	− 6
7. ENGLAND, N.W.	56	28	49·9	39·1	44·4	+ 3·2	29	+ 11	8	− 14	4	0	0·69	+0·18	1·8	−1·5	16	−13
8. ENGLAND, S.W.	56	30	50·1	39·9	44·9	+ 2·4	29	+ 5	6	− 12	6	+ 2	1·35	+0·78	1·8	−2·1	15	−18
9. IRELAND, NORTH ...	58	32	49·9	38·6	44·1	+ 2·3	29	+ 8	10	− 11	6	+ 1	0·63	+0·07	2·3	−0·9	20	− 8
10. IRELAND, SOUTH ...	63	29	52·5	38·9	45·5	+ 2·2	38	+ 11	9	− 7	6	+ 2	0·65	+0·02	3·8	+0·1	33	+ 1
11. ENGLISH CHANNEL ...	57	40	51·5	43·3	47·3	+ 2·2	37	+ 8	0	− 7	6	+ 2	0·82	+0·35	2·7	−2·1	23	−18

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 2 Weeks, March 3rd to March 16th, 1912.

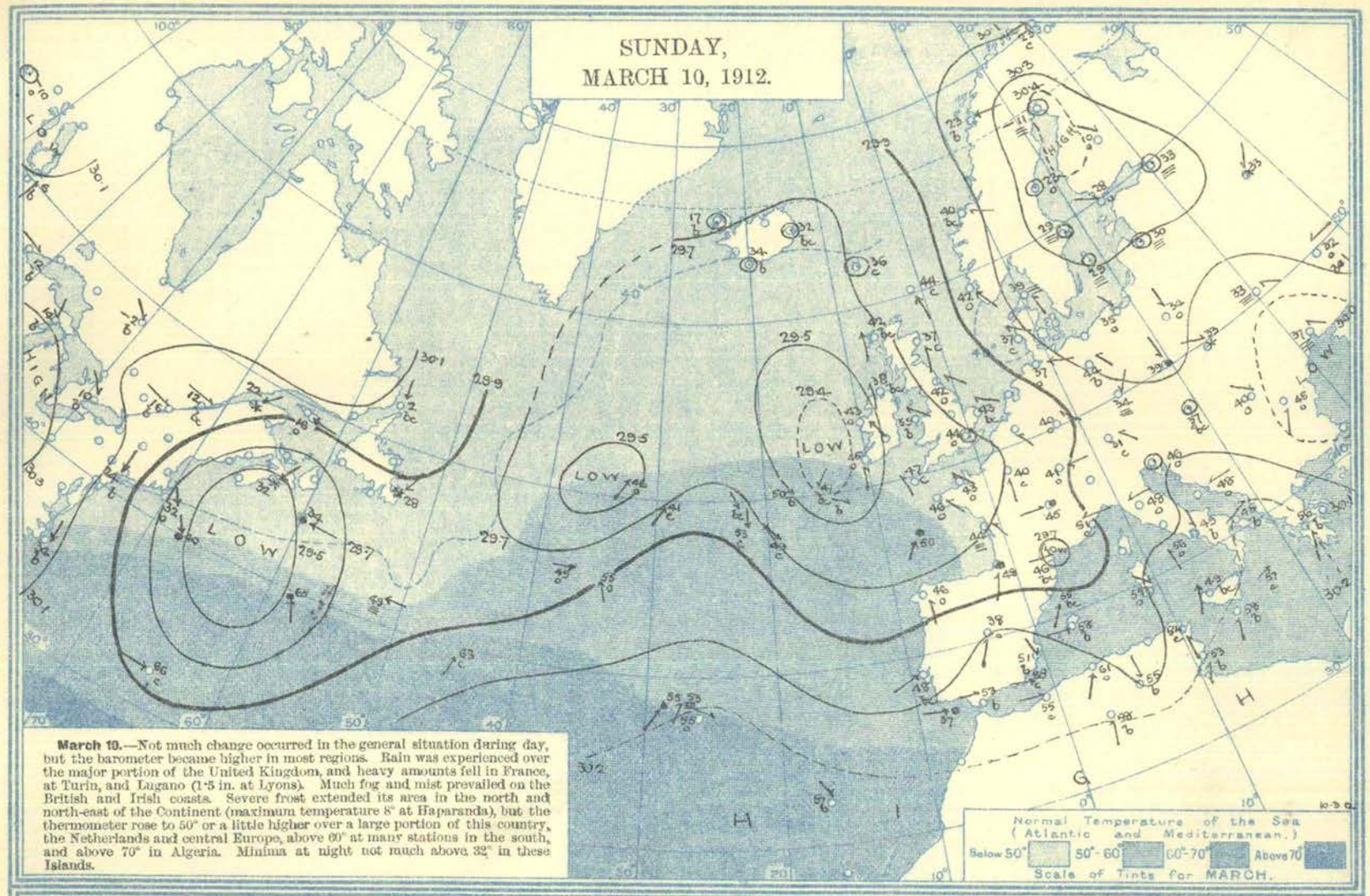
0. SCOTLAND, NORTH ...	55	29	*	*	*	*	37	+ 21	35	− 31	11	+ 1	1·83	−0·26	3·2	+0·5	29	+ 5
Eastern.																		
1. SCOTLAND, EAST ...	58	21	*	*	*	*	46	+ 21	43	− 29	10	+ 2	0·78	−0·29	2·9	−0·3	26	− 3
2. ENGLAND, N.E	59	29	*	*	*	*	55	+ 22	25	− 33	9	+ 2	1·10	+0·26	2·8	−0·9	25	− 8
3. ENGLAND, EAST ...	58	31	*	*	*	*	59	+ 18	17	− 45	10	+ 4	1·20	+0·53	2·6	−1·1	23	−10
4. MIDLAND COUNTIES ...	59	30	*	*	*	*	59	+ 17	22	− 40	9	+ 3	1·96	+1·17	2·4	−0·8	21	− 8
5. ENGLAND, S.E.	58	29	*	*	*	*	60	+ 17	13	− 35	11	+ 5	1·57	+0·72	3·2	−0·4	28	− 4
Western.																		
6. SCOTLAND, WEST ...	59	28	*	*	*	*	46	+ 19	21	− 33	11	+ 3	1·99	+0·38	3·3	+0·1	30	+ 1
7. ENGLAND, N.W.	56	28	*	*	*	*	53	+ 22	16	− 32	9	+ 1	1·61	+0·54	2·8	−0·4	25	− 4
8. ENGLAND, S.W.	56	30	*	*	*	*	58	+ 14	11	− 29	13	+ 5	3·17	+1·93	2·9	−0·7	26	− 6
9. IRELAND, NORTH ...	58	32	*	*	*	*	56	+ 18	23	− 22	12	+ 3	1·26	+0·09	3·7	+0·6	33	+ 5
10. IRELAND, SOUTH ...	63	29	*	*	*	*	69	+ 19	20	− 15	13	+ 5	2·26	+0·94	4·2	+0·6	37	+ 6
11. ENGLISH CHANNEL ...	58	36	*	*	*	*	74	+ 20	0	− 16	13	+ 5	2·54	+1·49	3·3	−1·2	29	−11

THE YEAR.—Aggregates, &c., for the Period of 11 Weeks, December 31st, 1911, to March 16th, 1912.

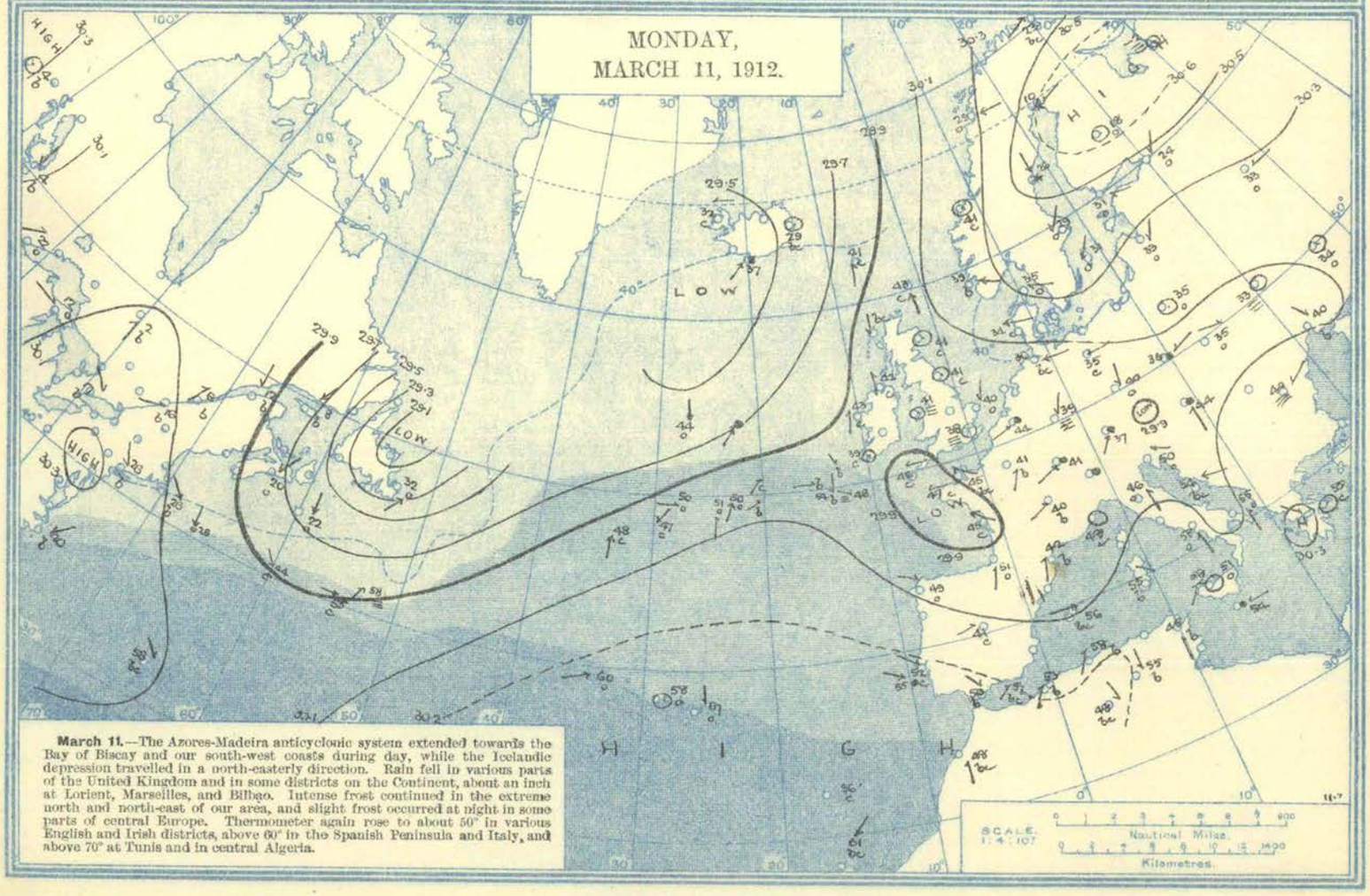
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	111	+ 35	331	− 65	55	− 1	9·40	−3·65	1·8	+0·2	21	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	58	−5	*	*	*	*	121	+ 28	386	− 63	53	+10	6·17	+0·11	1·8	−0·4	20	− 5
2. ENGLAND, N.E.	60	10	*	*	*	*	156	+ 43	296	− 63	50	+10	5·60	+1·37	1·7	−0·6	19	− 7
3. ENGLAND, EAST ...	60	14	*	*	*	*	191	+ 60	224	−177	49	+ 9	5·49	+1·45	1·6	−0·9	17	− 9
4. MIDLAND COUNTIES ...	60	9	*	*	*	*	186	+ 40	294	−104	47	+ 8	7·68	+2·71	1·5	−0·6	16	− 7
5. ENGLAND, S.E.	58	13	*	*	*	*	215	+ 54	183	−124	50	+12	7·39	+2·09	1·7	−0·7	18	− 8
Western.																		
6. SCOTLAND, WEST ...	59	12	*	*	*	*	137	+ 21	274	− 42	50	+ 2	10·74	+0·28	1·8	−0·2	20	− 2
7. ENGLAND, N.W.	60	7	*	*	*	*	177	+ 52	247	− 52	48	+ 4	7·39	+0·65	1·9	−0·2	20	− 2
8. ENGLAND, S.W.	60	9	*	*	*	*	236	+ 41	170	− 69	59	+15	11·35	+3·11	1·9	−0·5	20	− 5
9. IRELAND, NORTH ...	60	15	*	*	*	*	215	+ 52	194	− 68	46	− 5	7·95	+0·25	2·1	0·0	23	+ 1
10. IRELAND, SOUTH ...	63	13	*	*	*	*	278	+ 42	150	− 50	59	+13	11·11	+2·24	2·3	−0·1	25	− 1
11. ENGLISH CHANNEL ...	60	27	*	*	*	*	395	+122	41	− 54	52	+ 3	8·87	+1·91	2·4	−0·6	25	− 6

NOTES ON TABLE IV.

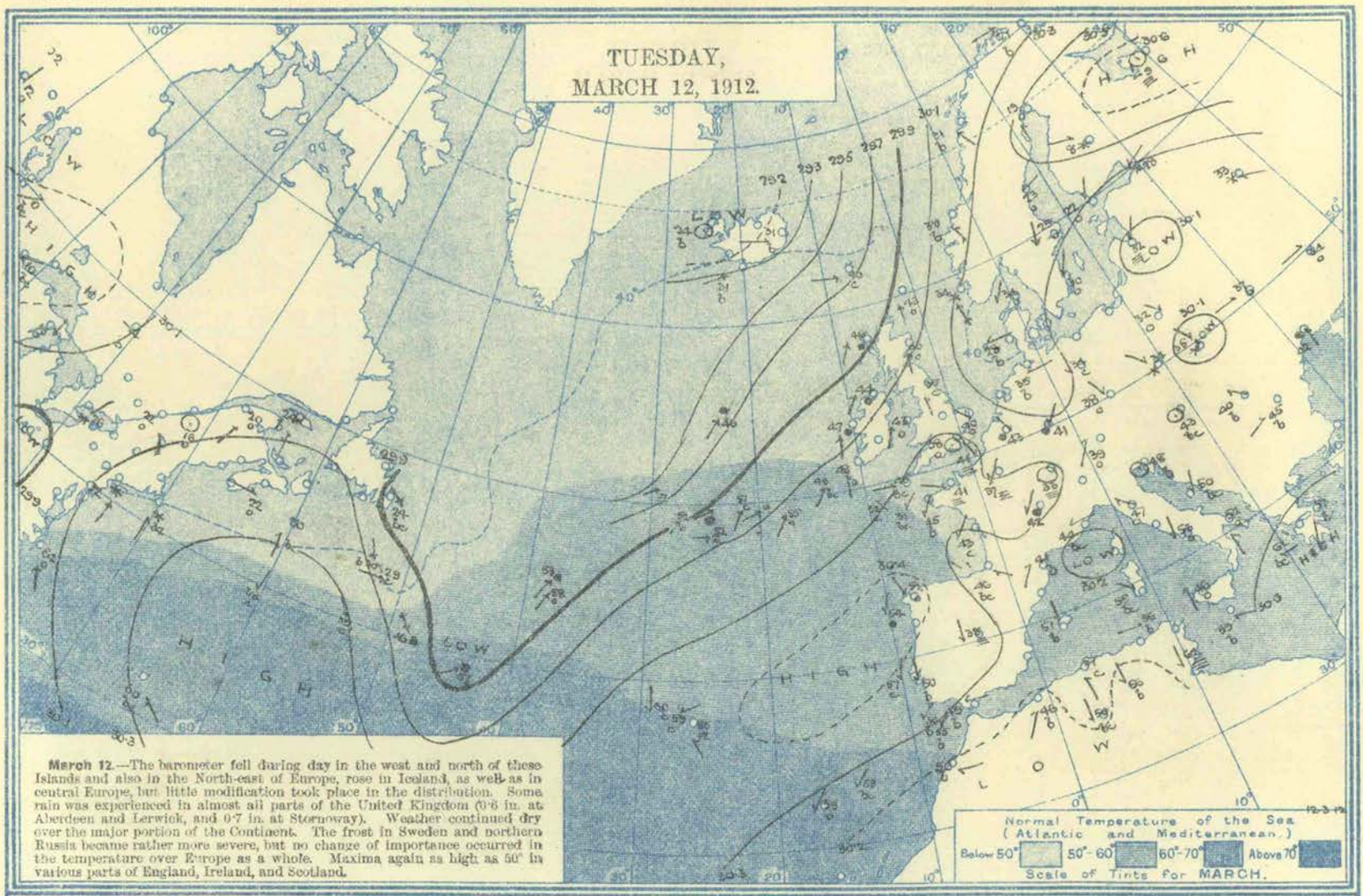
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only



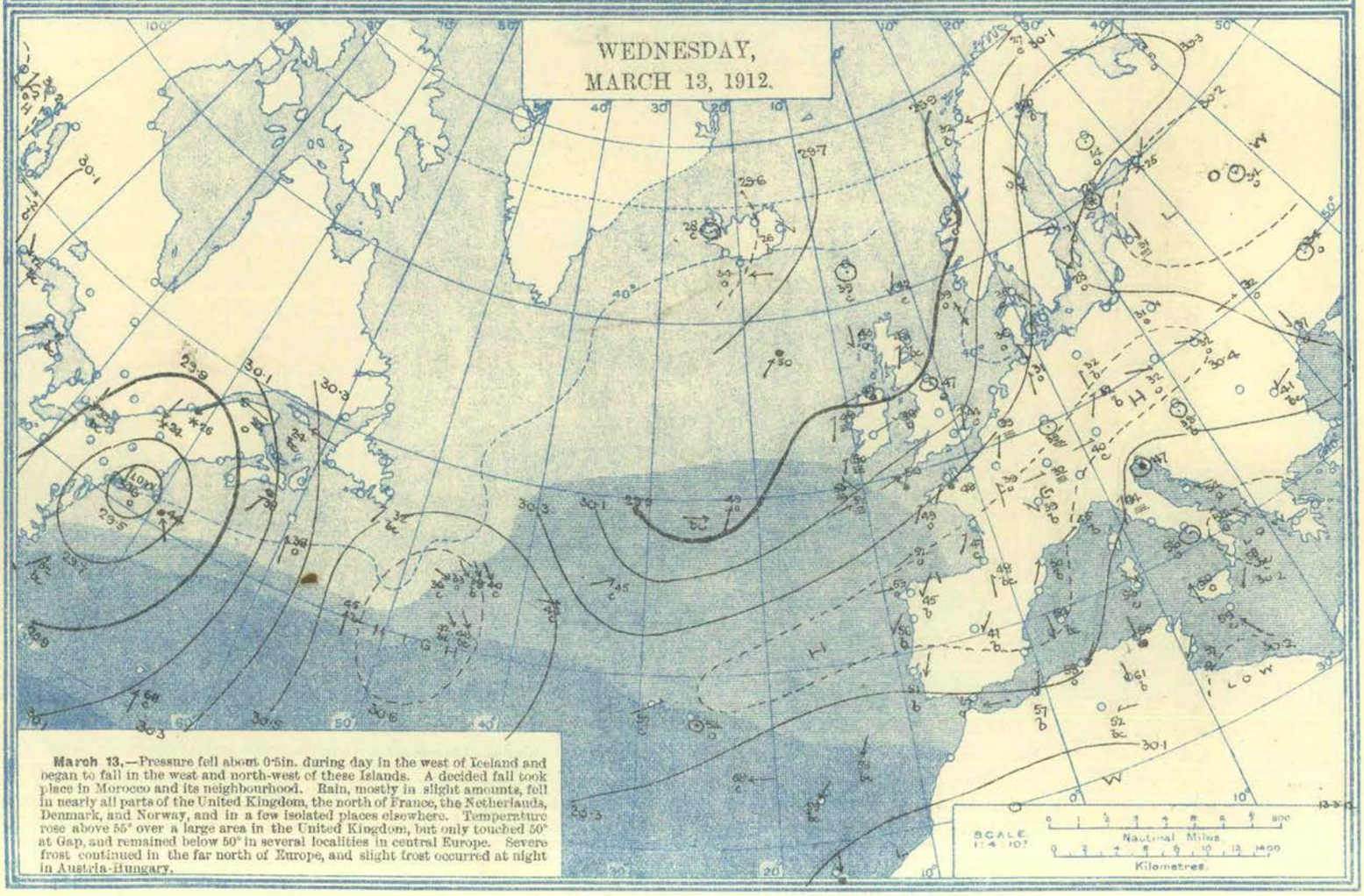
March 10.—Not much change occurred in the general situation during day, but the barometer became higher in most regions. Rain was experienced over the major portion of the United Kingdom, and heavy amounts fell in France, at Turin, and Lugano (1·5 in. at Lyons). Much fog and mist prevailed on the British and Irish coasts. Severe frost extended its area in the north and north-east of the Continent (maximum temperature 8° at Haparanda), but the thermometer rose to 50° or a little higher over a large portion of this country, the Netherlands and central Europe, above 60° at many stations in the south, and above 70° in Algeria. Minima at night not much above 32° in these Islands.



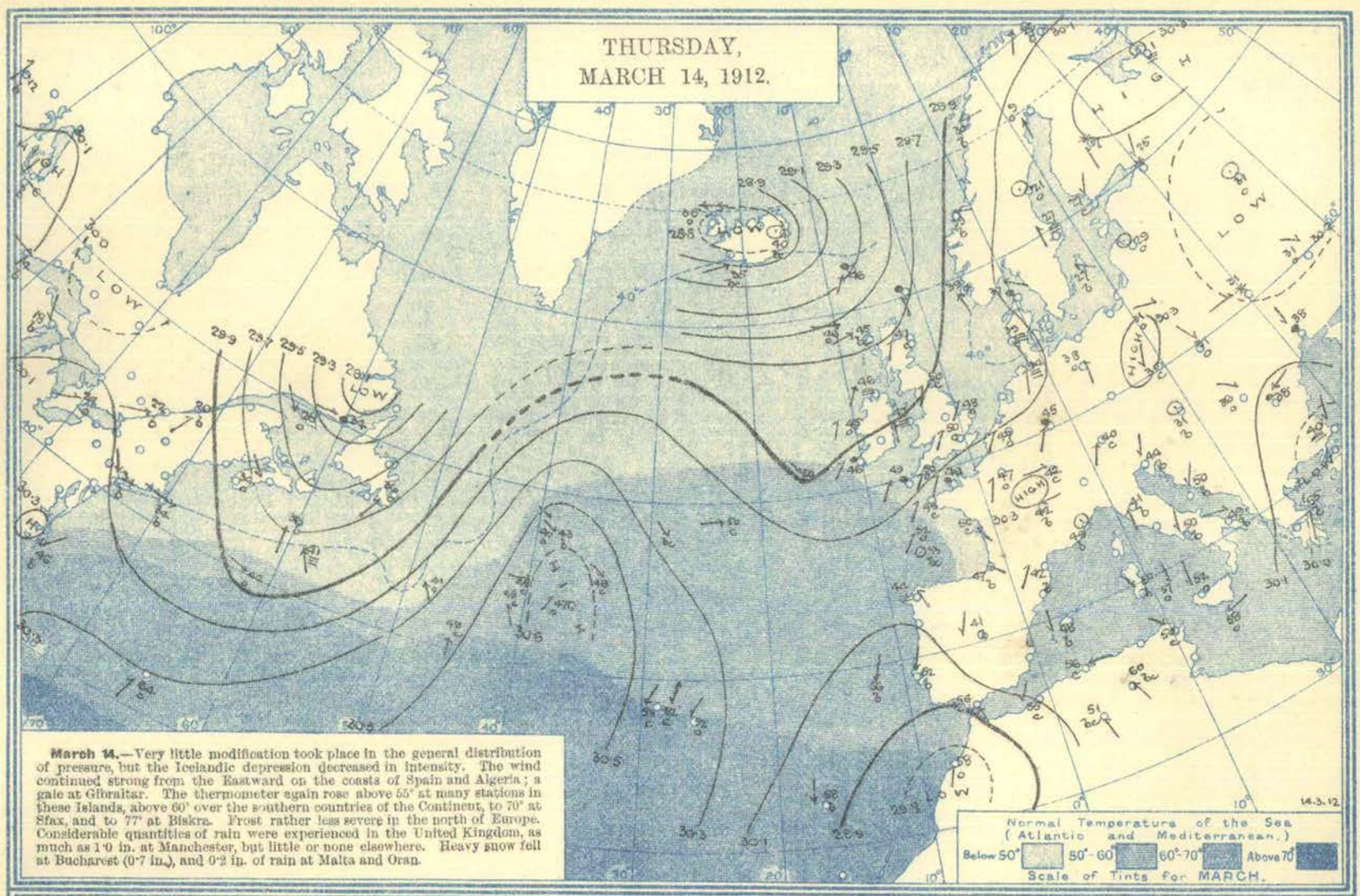
March 11.—The Azores-Madeira anticyclonic system extended towards the Bay of Biscay and our south-west coasts during day, while the Icelandic depression travelled in a north-easterly direction. Rain fell in various parts of the United Kingdom and in some districts on the Continent, about an inch at Lorient, Marseilles, and Bilbao. Intense frost continued in the extreme north and north-east of our area, and slight frost occurred at night in some parts of central Europe. Thermometer again rose to about 50° in various English and Irish districts, above 60° in the Spanish Peninsula and Italy, and above 70° at Tunis and in central Algeria.



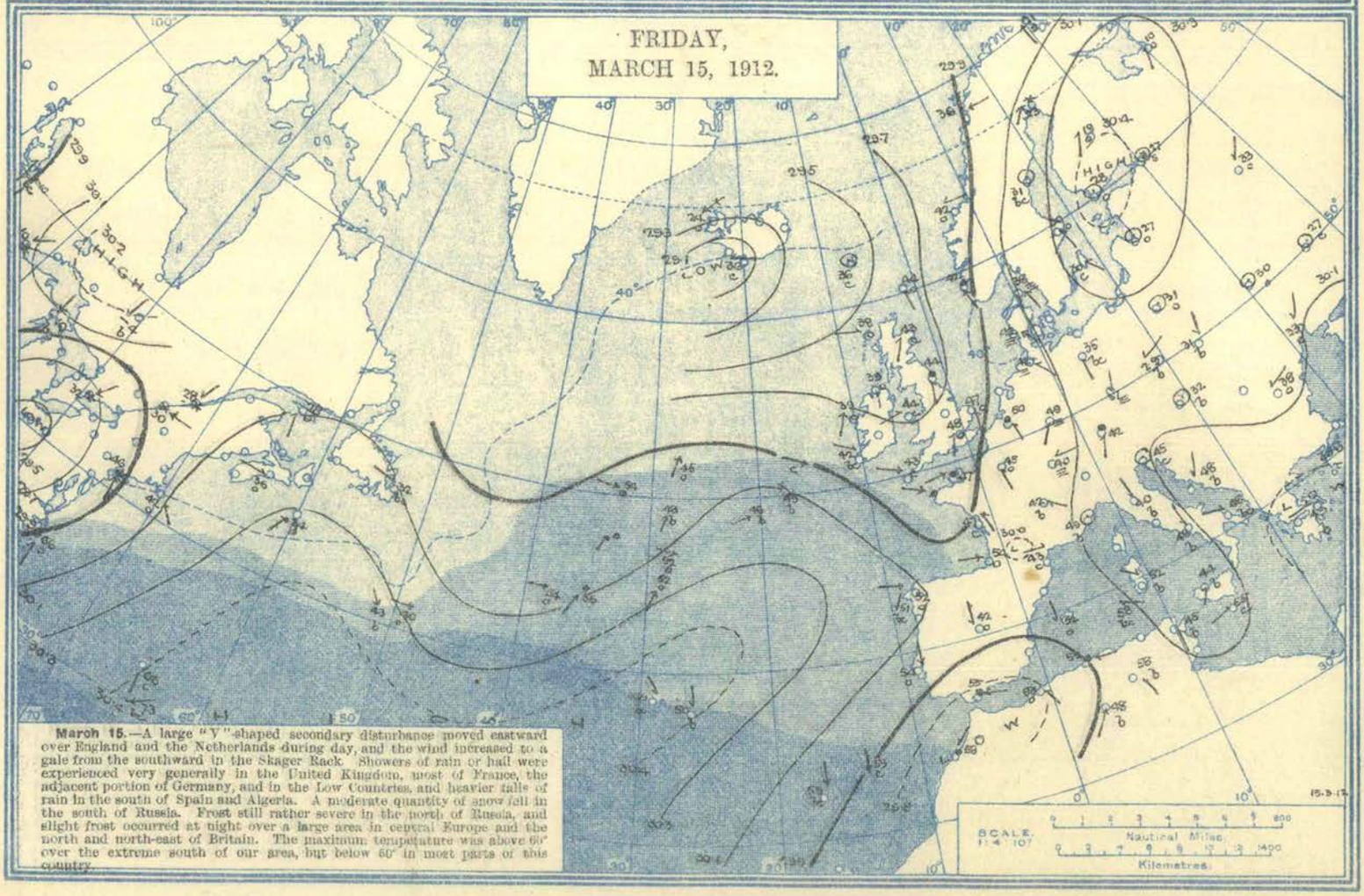
March 12.—The barometer fell during day in the west and north of these Islands and also in the North-east of Europe, rose in Iceland, as well as in central Europe, but little modification took place in the distribution. Some rain was experienced in almost all parts of the United Kingdom (0·6 in. at Aberdeen and Lerwick, and 0·7 in. at Stornoway). Weather continued dry over the major portion of the Continent. The frost in Sweden and northern Russia became rather more severe, but no change of importance occurred in the temperature over Europe as a whole. Maxima again as high as 50° in various parts of England, Ireland, and Scotland.



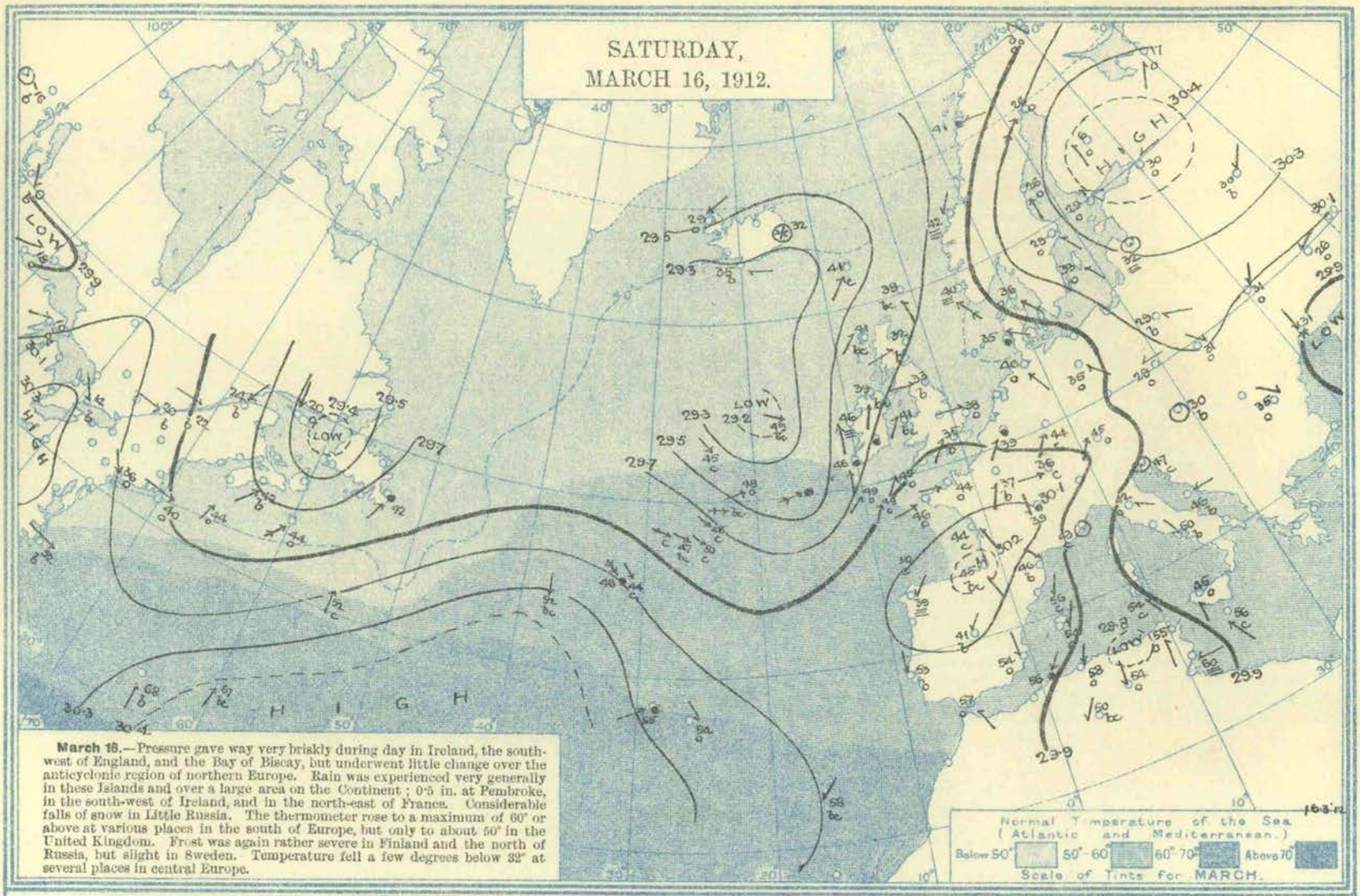
March 13.—Pressure fell about 0·5in. during day in the west of Iceland and began to fall in the west and north-west of these Islands. A decided fall took place in Morocco and its neighbourhood. Rain, mostly in slight amounts, fell in nearly all parts of the United Kingdom, the north of France, the Netherlands, Denmark, and Norway, and in a few isolated places elsewhere. Temperature rose above 55° over a large area in the United Kingdom, but only touched 50° at Gap, and remained below 50° in several localities in central Europe. Severe frost continued in the far north of Europe, and slight frost occurred at night in Austria-Hungary.



March 14.—Very little modification took place in the general distribution of pressure, but the Icelandic depression decreased in intensity. The wind continued strong from the Eastward on the coasts of Spain and Algeria; a gale at Gibraltar. The thermometer again rose above 55° at many stations in these Islands, above 60° over the southern countries of the Continent, to 70° at Sfax, and to 77° at Biskra. Frost rather less severe in the north of Europe. Considerable quantities of rain were experienced in the United Kingdom, as much as 1·0 in. at Manchester, but little or none elsewhere. Heavy snow fell at Bucharest (0·7 in.), and 0·2 in. of rain at Malta and Oran.

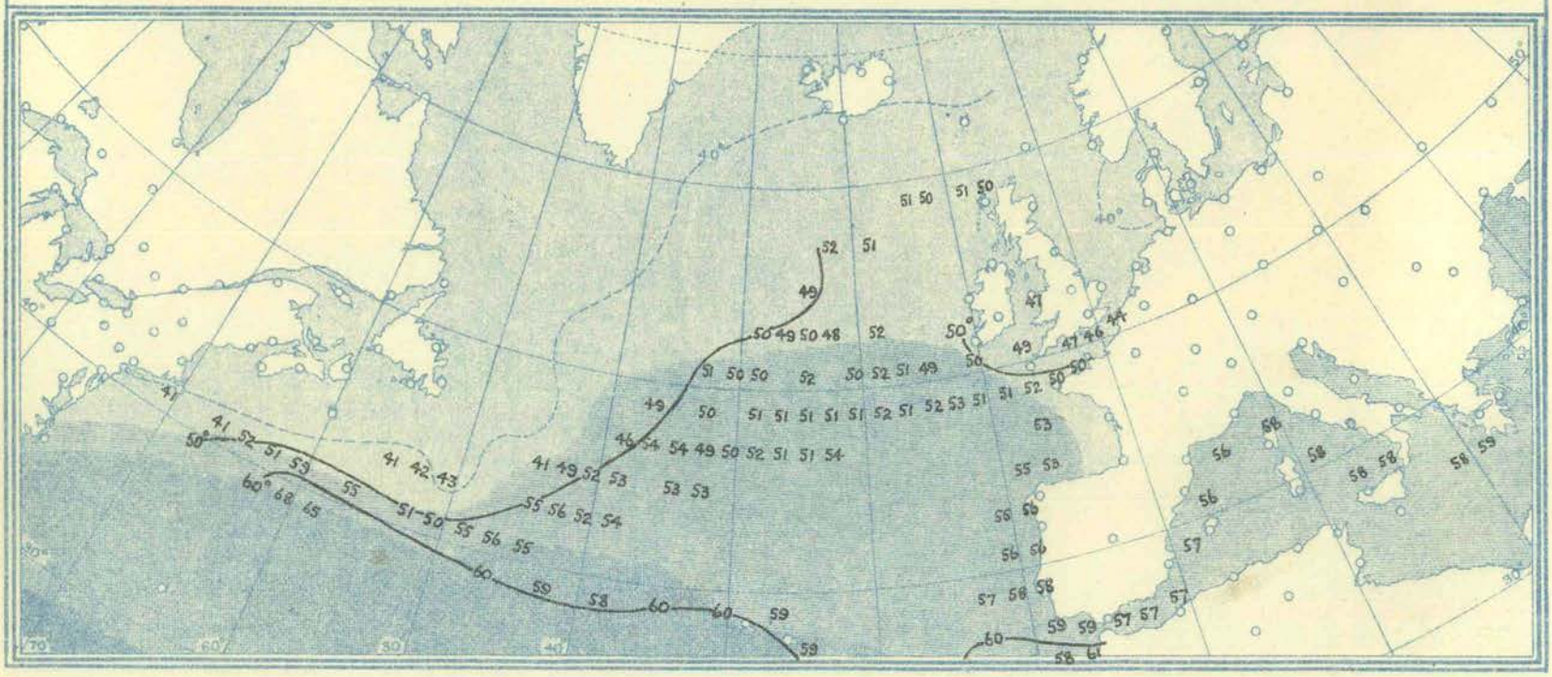


March 15.—A large "V"-shaped secondary disturbance moved eastward over England and the Netherlands during day, and the wind increased to a gale from the southward in the Skager Rack. Showers of rain or hail were experienced very generally in the United Kingdom, most of France, the adjacent portion of Germany, and in the Low Countries, and heavier falls of rain in the south of Spain and Algeria. A moderate quantity of snow fell in the south of Russia. Frost still rather severe in the north of Russia, and slight frost occurred at night over a large area in central Europe and the north and north-east of Britain. The maximum temperature was above 60° over the extreme south of our area, but below 60° in most parts of this country.



March 16.—Pressure gave way very briskly during day in Ireland, the south-west of England, and the Bay of Biscay, but underwent little change over the anticyclonic region of northern Europe. Rain was experienced very generally in these Islands and over a large area on the Continent; 0·5 in. at Pembroke, in the south-west of Ireland, and in the north-east of France. Considerable falls of snow in Little Russia. The thermometer rose to a maximum of 60° or above at various places in the south of Europe, but only to about 50° in the United Kingdom. Frost was again rather severe in Finland and the north of Russia, but slight in Sweden. Temperature fell a few degrees below 32° at several places in central Europe.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 16TH MARCH, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); → = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 12. TWELFTH WEEK, SUNDAY, MARCH 17TH, TO SATURDAY, MARCH 23RD, 1912. Price 6d. Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition was again extremely unsettled. Over a large portion of England and Ireland precipitation occurred every day, generally in the form of rain, but sometimes in that of sleet, snow, or hail. Thunder was experienced in a few isolated places on the 18th, 19th, and 20th, and on the 21st thunderstorms, with hail, accompanied the passage of a line squall from the Scilly Isles to the coast of East Anglia.

Temperature differed little from the normal as a whole, but was a little below it in most districts. The highest of the maxima occurred on rather variable dates, as a rule either on the 17th or 21st; the values ranged from 60° in Ireland S., and 55° in England E. and the Midland Counties to 51° in England N.E. The lowest of the minima, which were recorded during the latter half of the week, varied from 23° in Scotland E. to 31° in Ireland and in England S.E., and to 35° in the English Channel. The lowest grass readings reported were 19° at Rauceby and Newton Rigg, 20° at Worksop, and 21° at Buxton, Durham, and Burnley. In all parts of the Kingdom the temperature of the earth, both at 1 foot and 4 feet below the surface, was above the average; between 2° and 3° in most localities.

Mean Temperature of the Sea. On nearly all the British coasts, and at Sheephaven, the temperature of the water exceeded the normal, and on almost all coasts it was also higher than during the corresponding week of last year. The mean for the week ranged from 49° at Newquay and Scilly to 42° at Cromarty, and to 41° at Burnmouth.

Rainfall exceeded the normal except in Scotland N. and W., the excess being large in most parts of England. On the 19th 1·06 in. (mainly of sleet) fell at Markree Castle, and 1·02 in. at Stonyhurst.

Bright Sunshine just equalled the average in Scotland N., and exceeded it in Ireland S., but over the Kingdom generally there was a considerable deficiency. The values varied from more than 4 hours per day at many stations in Ireland and at Southsea to less than an hour per day at Manchester. The percentage of the possible duration, ranged from 38 in Ireland S. to 18 in the Midland Counties.

Barometer and Wind. Several cyclonic centres came over the United Kingdom from the Atlantic, the systems varying considerably in size and intensity. The general direction of the wind was Westerly in the southern half of these Islands, and South-Easterly to Easterly in the north. In the immediate vicinity of some of the smaller disturbances, however, the direction varied a good deal. A gale from the Westward was experienced at Scilly and Newquay late on Monday, and a Southerly gale at a few outlying places in the west and north-west on Tuesday and Wednesday, while on Thursday a gale from some point between South-East and South-West occurred on many parts of our southern coasts, and also at Malin Head. In Shetland a gale from East-South-East began at 11 a.m. on Monday, and continued until 9 a.m. on Wednesday.

THE WEEK.

For explanation of the terms "Unusual," &c. see p. 47.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Moderate	Heavy	Very heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 3 weeks from March 3rd, 1912.	Warmth ...	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0
	Rainfall ...	0 * 1	1 * 0	3 * 0	2 * 0	3 * 0	2 * 0	0 * 0	2 * 0	3 * 0	1 * 0	2 * 0	3 * 0
	Sunshine ...	1 * 0	0 * 1	0 * 2	0 * 2	0 * 2	1 * 2	1 * 1	1 * 2	1 * 2	1 * 1	1 * 0	0 * 2

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(23648—24.) Wt. 113—4. 450. 3/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Rainfall. Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hrs.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	*49*	*22nd*	*35*	*22, 23*	*45·3*	*38·1*	*41·6*	—	*9*	*15*	•	•	41·2	•	•	•	*7*	*0·25*	—	*3·3*	—	*28*	—	*Baltasound.*
a Lerwick	46	20, 22	35	23rd	44·3	37·7	40·9	+ 2·2	6	16	•	•	•	•	•	•	7	0·44	—	3·9	+ 0·3	33	+ 3	Deerness.
a, Islands .. *a* Stornoway	51	22nd	32	23rd	48·0	36·9	42·3	+ 2·3	24	14	•	•	•	•	•	•	4	0·62	- 0·27	3·8	+ 0·2	32	+ 2	Stornoway.
a Castlebay, Barra Isd.	*47*	*17, 22, 23*	*38*	*23rd*	*46·0*	*40·3*	*43·1*	+ *0·2*	*15*	*5*	•	•	•	•	•	•	*4*	*0·72*	—	*3·6*	—	*30*	—	*Castlebay.*
a Wick	45	22nd	33	23rd	43·6	37·9	40·7	+ 0·8	4	15	•	•	•	•	•	•	4	0·58	+ 0·08	•	•	•	•	
b, Mainland. *p* Strathpeffer	51	17th	29	21st	46·3	35·1	40·5	+ 1·2	12	26	•	•	•	•	•	•	5	0·49	- 0·09	2·7	- 0·4	23	- 4	Strathpeffer.
p Glencarron ..	51	17th	30	21, 23	46·6	34·2	40·2	+ 1·4	13	29	•	•	•	•	•	•	5	0·71	- 0·99	•	•	•	•	
p Fort Augustus..	52	17th	26	23rd	46·1	35·6	40·7	+ 0·9	11	24	•	•	•	•	•	•	6	0·88	+ 0·10	2·7	0·0	23	0	Fort Augustus.
p Fort William ..	53	17th	27	23rd	48·1	34·6	41·2	+ 0·2	17	29	•	•	•	•	•	•	4	1·70	+ 0·26	•	•	•	•	
1. SCOTLAND, E.											3	22	40·7	+2·2	41·4	+2·7	—	—	—	1·5	—	13	—	Crathes S.
p Gordon Castle.. S	48	17th	33	20, 21, 23	45·6	36·3	40·8	0·0	10	21	•	•	•	•	•	•	5	0·52	+ 0·02	*2·9*	—	*24*	—	*Gordon Castle.*
a Nairn	54	17th	28	21st	47·1	32·4	39·5	- 0·4	14	35	•	•	•	•	•	•	3	0·27	- 0·13	3·4	—	28	—	Nairn.
a Aberdeen ..	48	23rd	32	17, 21	44·7	35·6	40·0	- 0·4	8	21	•	•	•	•	42·1	+2·4	6	1·17	+ 0·65	2·1	- 1·9	18	-16	Aberdeen.
a Balmoral ..	47	23rd	27	20, 21, 23	44·1	32·1	37·9	+ 1·7	6	35	3	23	•	•	•	•	6	1·16	+ 0·54	•	•	•	•	Balmoral.
p Crieff	52	23rd	29	23rd	46·6	33·9	40·1	- 0·4	13	31	•	•	•	•	•	•	4	1·31	+ 0·66	2·7	—	23	—	Balruddery.
a Leith	52	17th	30	23rd	47·3	35·0	41·0	- 0·9	15	27	•	•	•	•	•	•	4	0·44	+ 0·12	•	•	•	•	
p West Linton .. S	50	23rd	23	23rd	44·7	30·9	37·6	- 0·8	8	39	•	•	•	•	•	•	6	0·59	—	*2·2*	—	*18*	—	*West Linton.*
p Marchmont ..	50	23rd	28	21st	45·0	34·3	39·5	+ 0·2	8	28	2	23	40·3	+2·0	•	•	5	1·11	+ 0·56	2·7	- 0·9	23	- 8	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	50	19th	29	21st	46·1	35·3	40·5	0·0	11	25	3	22	40·1	+1·6	42·2	+2·6	6	0·87	+ 0·32	2·8	—	23	—	Cockle Park.
a Shields	50	17, 19, 23	30	21st	46·7	33·4	39·9	- 1·0	13	32	•	•	•	•	•	•	5	0·40	- 0·01	•	•	•	•	
p Durham	49	19th	27	21st	45·7	33·7	39·5	- 0·7	10	30	?5	21	•	•	•	•	4	0·44	+ 0·06	3·0	- 0·7	25	- 6	Durham.
a, North .. *p* Rounton	50	19th	29	21, 23	48·2	34·4	40·1	0·0	12	28	3	25	42·3	•	•	•	5	0·38	- 0·07	•	•	•	•	Rounton.
a West Witton ..	*48*	*18, 19*	*28*	*21, 23*	*44·4*	*33·3*	*38·7*	—	*7*	*31*	4	24	40·6	•	41·5	•	*5*	*1·00*	—	•	•	•	•	*West Witton.*
p Scarborough ..	51	19th	34	21st	46·7	36·0	41·2	- 0·3	13	23	•	•	•	•	•	•	6	0·51	+ 0·10	3·0	—	25	—	Scarborough.
p York	49	1 th	32	21, 23	47·4	36·6	41·8	0·0	15	21	•	•	42·9	+2·6	43·3	+2·4	3	0·66	+ 0·29	1·9	- 1·5	16	-13	York.
a Spurn Head	48	19, 23	33	21st	46·4	36·1	41·1	- 0·3	12	23	3	23	42·4	+2·2	43·1	+2·0	6	0·71	+ 0·42	*1·9*	—	*16*	—	*Hull.*
b, South .. *a* Lincoln	51	21st	31	21st	49·0	35·1	41·8	0·0	20	27	•	•	42·0	+2·5	43·3	+2·8	6	0·96	+ 0·61	•	•	•	•	Lincoln.
a Fulbeck	50	21st	32	21, 23	47·0	34·7	40·7	- 1·1	14	28	5	19	43·7	+2·1	44·4	+2·1	6	1·08	+ 0·74	2·2	—	18	—	Rauceby.
											•	•	•	•	•	•	—	—	—	3·3	—	28	—	Skegness.
											0	31	43·8	+2·5	44·7	+3·0	—	—	—	*3·6*	—	*30*	—	*Lowestoft.*
3. ENGLAND, E.											•	•	•	•	•	•	7	1·29	—	3·0	—	25	—	Cromer.
p Cromer	50	18, 21, 23	34	20, 21	48·7	37·1	42·7	+ 1·8	25	14	4	23	•	•	•	•	7	0·93	+ 0·53	2·6	- 1·3	22	-10	Hillington.
p Hillington ..	51	21st	29	23rd	49·6	35·7	42·4	+ 0·9	29	18	•	•	•	•	•	•	6	1·23	+ 0·89	3·8	—	32	—	Yarmouth
a, North .. *a* Yarmouth ..	51	21st	34	23rd	48·3	36·9	42·4	+ 1·7	24	14	•	•	44·3	+2·8	45·1	+2·1	6	1·03	—	*3·5*	—	*29*	—	*Norwich.*
a Norwich ..	53	21st	33	21, 23	49·6	36·9	43·1	+ 1·8	29	14	4	26	43·6	•	•	•	6	1·25	+ 0·91	3·1	- 1·1	26	-10	Geldeston.
p Geldeston ..	54	21st	34	21st	50·0	39·0	44·3	+ 2·8	29	8	•	•	•	•	•	•								
p Cambridge	55	21st	29	23rd	49·9	36·1	42·8	+ 0·8	30	17	3	25	44·6	+2·9	45·9	+3·1	6	1·28	+ 0·98	2·7	- 1·4	23	-12	Cambridge.
a Felixstowe ..	*51*	*21st*	*35*	*23rd*	*49·0*	*38·4*	*43·5*	+ *1·7*	*26*	*10*	•	•	•	•	•	•	*7*	*1·24*	—	*3·0*	—	*25*	—	*Felixstowe.*
a Clacton-on-Sea ..	50	20, 21, 22	34	23rd	48·7	37·9	43·1	+ 1·8	25	11	1	29	45·2	+3·1	47·0	+3·1	6	1·08	—	2·6	—	22	—	Clacton.
b, South .. *a* Rothamsted ..	53	21st	31	23rd	48·9	35·1	41·8	+ 0·7	19	28	•	•	•	•	•	•	7	1·91	+ 1·50	1·9	- 2·0	16	-17	Rothamsted.
a Shoeburyness ..	*53*	*21, 23*	*36*	*20, 21, 23*	*50·3*	*38·7*	*44·3*	+ *1·4*	*30*	*9*	4	28	45·0	+3·1	•	•	*7*	*0·89*	+ *0·64*	*1·8*	—	*15*	—	*Southend.*
p Tottenham ..	53	21st	33	21st	48·4	38·4	43·3	+ 1·1	24	10	0	31	•	•	46·0	+3·1	7	1·06	—	1·6	—	13	—	Tottenham.
4. MIDLAND COUNTIES.											5	24	41·3	+2·5	42·5	+2·6	—	—	—	*1·3*	—	*11*	—	*Huddersfield.*
a Harrogate	46	18, 19	29	21st	43·3	33·9	38·5	- 1·6	4	29	4	27	40·8	+1·4	42·5	+2·4	6	0·97	+ 0·50	2·3	—	19	—	Harrogate.
a Bawtry	51	18th	28	21st	48·7	33·7	41·0	- 0·8	19	32	5	20	43·0	•	43·9	•	5	0·91	+ 0·58	2·1	- 1·3	18	-11	Worksop.
p Buxton	*46*	*19th*	*27*	*23rd*	*42·6*	*33·6*	*38·0*	- *0·4*	*2*	*29*	4	21	41·2	+2·8	43·1	+2·7	*6*	*1·10*	+ *0·20*	*1·3*	—	*11*	—	*Buxton.*
a East .. *a* Nottingham	51	21st	31	21, 23	48·0	33·4	40·5	- 1·1	17	33	4	25	41·6	+2·0	43·0	+3·3	4	0·88	+ 0·53	2·3	—	19	—	Nottingham.
p Birmingham, Edgbn.	49	21st	33	21st	46·7	36·0	41·2	0·0	13	23	5	22	41·9	+1·6	44·9	+2·2	6	0·85	+ 0·45	1·8	—	15	—	Birmingham.
a Raunds	53	21st	29	23rd	50·4	34·4	42·2	+ 1·1	33	21	4	27	43·2	•	45·2	•	6	0·91	—	•	•	•	•	Raunds.
a Oxford	52	22nd	35	20, 21	48·7	36·7	42·5	+ 0·2	26	15	2	29	•	•	•	•	7	1·67	+ 1·36	2·3	- 1·6	19	-13	Oxford.
											2	25	41·6	+2·4	42·8	+2·5	—	—	—	1·8	—	15	—	Sheffield.
a Cheadle	49	21st	32	20, 21, 23	46·3	33·5	39·7	- 0·5	13	31	6	25	•	•	•	•	5	1·02	+ 0·52	•	•	•	•	Cheadle.
p Shrewsbury ..	53	17th	32	23rd	48·7	35·4	41·9	- 0·7	19	27	3	29	•	•	•	•	5	0·65	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	52	22nd	31	21st	47·7	35·9	41·6	- 0·8	16	24	3	27	•	•	•	•	6	1·36	+ 0·97	•	•	•	•	Hereford.
a Cirencester ..	55	17th	31	19, 20, 21	48·0	34·1	40·8	0·0	17	30	1	30	43·2	•	44·8	•	6	1·77	+ 1·35	2·1	- 1·8	18	-15	Cirencester.
a Bath	54	23rd	34	17, 21	50·1	36·6	43·2	+ 0·7	31	15	•	•	45·0	+2·1	46·2	+2·4	7	2·02	+ 1·55	2·6	—	22	—	Bath.
5. ENGLAND, S.E.											3	29	45·2	+3·9	47·5	+4·0	—	—	—	•	•	•	•	Canterbury.
p Kew	53	21st	32	21st	48·4	38·0	43·1	+ 0·6	25	11	5	24	44·5	+2·9	46·4	+3·1	7	1·20	+ 0·84	1·8	- 1·8	15	-15	Kew.
a Marlborough ..	52	22nd	32	20, 21	48·3	35·4	41·7	+ 1·3	18	26	4	25	•	•	•	•	7	2·09	+ 1·57	•	•	•	•	Marlborough.
a Margate	52	21st	33	21st	49·6	38·4	43·8	+ 1·8	28	10	2	—	44·4	+2·8	45·6	+3·4	7	1·60	+ 1·27	2·3	- 1·8	19	-15	Margate.
a Wisley, Surrey ..	53	21st	32	21st	48·9	37·9	43·2	+ 0·3	26	11	5	23	43·8	+2·3	45·9	+3·1	7	1·05	—	2·0	—	17	—	Wisley
a Swarraton	52	21st	31	21st	48·6	36·0	42·1	+ 0·6	26	17	2	29	45·4	+3·0	46·9	+3·2	7	1·78	+ 1·28	3·2	—	27	—	Worthing.
a Tunbridge Wells ..	51	21, 22	31	21st	48·4	36·1	42·1	+ 0·3	25	17	4	28	43·9	+3·1	•	•	7	2·84	+ 2·36	2·5	- 1·6	21	-13	Tunbridge Wells.
a Dungeness	52	22nd	36	20th	49·7	40·1	44·8	+ 2·9	28	5	•	•	•	•	•	•	7	2·30	+ 1·94	3·3	—	28	—	Littlestone.
p Hastings	53	22nd	34	20th	49·4	39·3	44·2	+ 1·5	27	8	2	29	45·7	•	46·6	•	7	1·46	+ 1·00	*3·4*	- *1·2*	*28*	- *10*	*Hastings.*
p Southampton ..	54	21st	35	19, 20	50·7	38·9	44·6	+ 0·3	31	9	3	25	•	•	•	•	7	1·24	+ 0·77	2·5	- 1·8	21	-15	Southampton.
a Ventnor	53	21st	35	20th	50·7	40·9	45·7	+ 1·5	31	3	•	•	•	•	•	•	7	1·41	+ 0·99	3·1	- 1·7	28	-14	Ventnor.
											0	31	45·2	+1·9	47·3	+2·4	—	—	—	*4·1*	—	*34*	—	*Portsmouth.*
											•	•	46·0	•	47·3	•	—	—	—	3·6	- 0·9	30	- 8	Eastbourne.
											•	•	44·6	•	46·0	•	—	—	—	*3·0*	—	*25*	—	*Bournemouth.*
											3	29	•	•	46·1	•	—	—	—	*3·2*	- *1·3*	*27*	- *11*	*Brighton.*
LONDON.																								
a Westminster	*55*	*21st*	*35*	*21st*	*49·9*	*38·7*	*44·1*	+ *1·3*	*29*	*9*	2	29	•	•	•	•	7	*0·91*	+ *0·53*	*1·5*	- *0·9*	*13*	- *8*	*Westminster.*
a Greenwich	*55*	*21st*	*31*	*21st*	*50·6*	*37·0*	*43·6*	+ *0·2*	*32*	*14*	4	27	•	•	•	•	7	*1·13*	+ *0·76*	*1·8*	- *1·6*	*15*	- *13*	*Greenwich.*
a Hampstead	*52*	*21st*	*33*	*20, 21*	*47·6*	*36·6*	*41·9*	—	*16*	*21*	5	26	•	•	•	•	7	*1·29*	—	*1·7*	—	*14*	—	*Hampstead.*
a Camden Square ..	*56*	*21st*	*33*	*21st*	*50·6*	*37·0*	*43·6*	—	*32*	*14*	1	30	•	•	•	•	7	*1·08*	—	*1·8*	—	*15*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	51	22, 23	29	23rd	47·4	36·1	41·6	+ 0·7	15	23	•	•	•	•	•	•	4	0·77	0·00	•	•	•	•	
p Glasgow	49	17th	32	23rd	46·3	36·7	41·4	+ 0·7	12	21	1	27	•	•	•	•	5	0·89	+ 0·16	1·9	- 1·0	16	- 8	Glasgow.
p Rothesay .. S.	53	17th	30	23rd	48·0	36·3	42·0	+ 0·5	17	16	•	•	•	•	43·9	+2·1	5	0·93	+ 0·20	•	•	•	•	
a Kilmarnock ..	53	17th	30	23rd	47·6	35·4	41·3	+ 0·3	16	26	•	•	•	•	•	•	4	0·53	—	*3·1*	—	*26*	—	*Kilmarnock.*
a Colmonell ..	53	17th	31	23rd	47·7	35·4	41·4	- 0·5	16	26	2	28	•	•	•	•	5	0·42	- 0·31	•	•	•	•	
p Dumfries ..	49	17, 23	28	23rd	46·1	35·4	40·6	- 0·5	11	25	3	24	42·0	•	43·0	•	4	0·36	- 0·27	*1·6*	—	*13*	—	*Dumfries.*
p Cally, Gatehouse S.	50	22nd	27	23rd	46·0	33·9	39·8	- 1·1	11	30	•	•	•	•	•	•	4	0·75	- 0·10	•	•	•	•	
b I. OF MAN.																								
p Douglas	48	22nd	34	20, 21	46·1	36·6	41·2	- 0·6	11	21	2	27	•	•	•	•	6	0·94	+ 0·30	3·6	- 0·9	30	- 7	Douglas.
											5	21	41·1	+2·5	42·9	+2·8	—	—	—	*2·0*	—	*17*	—	*Burnley.*
											3	26	•	•	•	•	—	—	—	3·2	•	27	•	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	53	17th	31	19th	47·1	35·3	41·0	+ 0·6	14	26	4	25	42·7	•	44·0	•	6	0·43	- 0·23	2·7	—	23	—	Aspatria.
p Newton Rigg ..	48	17th	27	23rd	44·6	32·9	38·6	- 0·9	7	33	5	19	41·4	+1·4	41·9	+1·8	5	0·61	+ 0·06	1·9	- 1·8	16	-15	Newton Rigg.
p Stonyhurst ..	50	17th	31	23rd	46·0	35·9	40·8	+ 0·2	11	23	2	24	•	•	•	•	6	1·76	+ 0·99	1·9	- 1·7	16	-14	Stonyhurst.
p Blackpool	52	17th	31	23rd	47·7	35·6	41·5	0·0	16	25	•	•	•	•	•	•	5	1·29	+ 0·75	3·3	- 0·4	28	- 3	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool(Bidston) ..	53	17th	33	21st	47·4	35·0	41·0	- 2·1	15	27	•	•	•	•	•	•	5	0·91	+ 0·49	*2·6*	—	*22*	—	*Liverpool.*
a Hawarden Bridge ..											3	32	41·8	+0·7	43·6	+2·0	—	—	—	*2·9*	- *0·9*	*24*	- *8*	*Southport.*
											1	30	(41·7)	+2·0	44·9	+3·0	—	—	—	*0·2*	—	*8*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	53	17th	35	21st	48·4	39·4	43·8	+ 0·8	24	7	•	•	•	•	•	•	5	0·84	+ 0·36	3·2	- 0·6	27	- 5	Llandudno.
a Holyhead	50	17, 22	38	20, 21	48·3	39·1	43·6	+ 0·7	23	8	•	•	•	•	•	•	6	1·29	+ 0·72	3·5	—	29	—	Aberdovey
p Bettws-y-Coed ..	53	17th	31	21st	49·0	35·6	42·1	- 0·8	28	18	3	29	42·6	+0·7	45·0	+2·2	7	1·25	—	3·3	—	28	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	51	17th	30	21st	47·7	34·1	40·7	+ 0·1	16	30	4	25	42·2	+1·2	45·0	+2·0	7	2·15	—	2·5	—	21	—	Llangammarch
a Pembroke	51	23rd	36	21st	48·4	41·9	45·1	+ 2·2	22	0	*	*	°	*	*	*	6	1·06	+ 0·58	3·3	- 1·1	28	- 9	Pembroke.[Wells
p Cardiff	52	17, 23	33	20, 21	48·4	37·3	42·7	- 0·6	25	13	2	29	44·1	+3·1	45·6	+3·1	7	2·01	+ 1·34	*2·4*	—	*20*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	52	17th	36	21st	49·1	38·9	43·9	+ 1·2	26	9	0	32	*	*	*	*	7	1·58	+ 1·05	2·3	—	19	—	*Clifton.*
a Shaftesbury	50	23rd	31	20th	46·6	35·4	40·8	- 0·3	13	25	*	*	43·1	*	*	*	7	1·16	+ 0·65	*	*	*	*	Shaftesbury.
a Arlington	50	17, 23	32	20, 21	47·1	36·0	41·4	0·0	14	24	*	*	46·2	*	*	*	7	2·96	+ 2·13	2·7	- 1·8	23	-15	Newquay.
a Cullompton	54	23rd	31	20th	50·3	37·0	43·5	+ 0·5	32	14	3	26	45·2	*	*	*	7	2·01	+ 1·46	1·7	- 2·4	14	-20	Cullompton.
a Portland	51	18, 22, 23	37	20th	49·9	41·3	45·5	+ 2·1	27	2	*	*	*	*	*	*	7	1·32	—	*2·8*	—	*23*	—	*Weymouth.*
p Plymouth	53	22, 23	34	19th	50·4	39·9	45·0	+ 0·9	30	6	1	28	46·1	+1·9	*	*	7	2·04	+ 1·45	3·4	- 1·0	28	- 9	Plymouth.
p Falmouth	54	23rd	36	19, 20	48·6	40·7	44·5	+ 0·1	23	4	*	*	*	*	*	*	7	2·74	+ 2·05	3·3	- 1·3	28	-11	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	51	17th	35	20th	46·1	36·4	41·1	- 0·8	11	21	*	*	*	*	*	*	6	0·73	+ 0·23	*	*	*	*	*
a Blacksod Point ..	51	21st	36	18, 20, 21	47·7	38·4	42·9	- 0·9	21	10	*	*	*	*	*	*	6	1·66	+ 0·83	*	*	*	*	*
p Markree Castle ..	52	21st	32	18th	48·6	34·4	41·3	- 0·5	18	30	3	27	43·7	*	44·9	*	6	1·96	+ 1·26	3·2	- 0·4	27	- 3	Markree Castle.
a Birr Castle	53	23rd	31	23rd	49·3	34·9	41·9	+ 0·1	20	29	*	*	*	*	*	*	6	0·87	+ 0·35	*4·2*	*+ 0·4*	*35*	*+ 4*	*Birr Castle.*
b, East .. *p* Armagh	52	17th	32	18th	47·6	35·0	41·1	- 0·8	16	27	3	25	42·7	+0·4	44·1	+0·8	7	1·34	+ 0·84	3·1	- 0·4	26	- 4	Armagh.
a Donaghadee	53	17th	33	19, 20	46·4	35·4	40·7	- 1·8	12	25	*	*	*	*	*	*	4	0·53	+ 0·08	*	*	*	*	*
											6	23	44·2	+1·0	?	*	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											6	23	*	*	*	*	—	—	—	4·0	- 0·2	33	- 2	Phœnix Park.
p Dublin, City	53	21st	35	18th	48·9	38·1	43·3	- 0·6	25	11	0	33	*	*	*	*	6	0·96	+ 0·53	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	55	23rd	32	20th	49·9	36·3	42·9	+ 0·2	30	16	*	*	*	*	*	*	7	0·89	+ 0·41	*	*	*	*	*
a Waterford	57	23rd	31	20th	50·6	37·6	43·9	+ 0·5	32	12	*	*	*	*	*	*	5	1·00	+ 0·41	*	*	*	*	*
a Birr Castle	53	23rd	31	23rd	49·3	34·9	41·9	+ 0·1	20	29	*	*	*	*	*	*	6	0·87	+ 0·35	4·2	+ 0·4	35	+ 4	Birr Castle.
a Foynes	52	23rd	33	20th	49·4	37·9	43·5	- 0·4	28	11	*	*	*	*	*	*	7	1·18	+ 0·57	*	*	*	*	*
a Cahir	57	23rd	34	18, 20	49·9	37·2	43·4	+ 0·4	30	13	*	*	*	*	*	*	7	1·30	—	*	*	*	*	*
b, West .. *a* Killarney	60	23rd	32	20th	52·5	37·2	44·6	+ 0·1	38	13	*	*	*	*	*	*	7	1·42	+ 0·42	*	*	*	*	*
a Valencia	53	23rd	36	20th	49·4	40·0	44·6	- 0·5	27	6	*	*	*	*	*	*	7	1·35	+ 0·36	4·8	+ 0·6	40	+ 5	Valencia.
a Roche's Point ..	54	23rd	35	20th	49·6	39·1	44·2	- 0·3	28	8	*	*	*	*	*	*	7	0·93	+ 0·29	5·0	—	42	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	53	23rd	35	20th	50·3	41·1	45·6	- 0·3	29	3	*	*	*	*	*	*	7	1·90	+ 1·39	2·7	- 2·0	23	-17	Scilly.
a Jersey, St. Aubins ..	54	17, 21	35	20th	52·3	41·0	46·5	+ 1·4	36	3	*	*	*	*	*	*	7	2·67	+ 2·16	2·9	- 2·1	24	-17	St. Heliers.
a Guernsey (Villa Carey)	53	21st	36	20th	50·9	40·9	45·8	+ 0·6	31	3	1	29	46·0	+0·9	47·9	+2·3	7	2·97	+ 2·43	3·3	- 1·6	28	-14	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·4 hrs. 28 °/₀; Newcastle (Pendower), hrs. °/₀; Ramsgate, 2·5 hrs. 21 °/₀; Rhyl, 3·5 hrs. 29 °/₀; Salcombe, 3·7 hrs. 31 °/₀; Tenby, 3·1 hrs. (- 1·6) 26 °/₀ (- 13 °/₀); Torquay, 3·4 hrs. (- 1·3) 28 °/₀ (- 11 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 23rd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	—			°	°	°	
SCOTLAND, N. ..	Lerwick	—	—	—	—	SCOTLAND, W. ..	Lamlash	46	39	43·0	-0·7
	Kirkwall	45	45	45·0	+3·6		Ballantrae .. .	46	42	44·5	+1·0
	Wick	—	—	—	—	ENGLAND, N.W. ..	Port Erin	47	44	45·5	+1·5
	Cromarty	43	42	42·4	+2·2		Newquay	49	49	49·0	+2·0
SCOTLAND, E. ..	Pennan Bay	44	42	42·7	+1·8	ENGLAND, S.W. ..	Scilly	50	48	48·9	—
	Aberdeen, Cove Bay	43	43	43·0	+1·6		Plymouth‡	48	47	47·7	+1·1
ENGLAND, N.E. ..	Burnmouth, Berwick	41	41	41·0	+1·0		Salcombe	50	47	48·4	+2·9
	Scarborough . ..	44	40	42·5	+1·6	IRELAND, N.W. ..	Sheephaven	46	46	46·0	+0·9
ENGLAND, E. ..	Shipwash Lightship	47	43	46·1	+5·3		Teelin	47	44	45·0	-0·4
	Margate‡	46	46	46·2	+3·9	IRELAND, S.W. ..	Cleggan	44	41	42·6	-2·7
ENGLAND, S.E. ..	Eastbourne‡	46	45	45·6	+2·8	IRELAND, E.	Seafield	49	44	46·2	-0·9
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWELFTH WEEK—March 17th to March 23rd, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	53	26	46·1	36·0	40·9	+ 0·9	11	− 3	23	− 5	5	− 1	0·77	−0·26	3·3	0·0	27	0
Eastern.																		
1. SCOTLAND, EAST ...	54	23	45·6	33·8	39·6	− 0·6	10	− 10	31	0	5	+ 1	0·82	+0·30	2·5	−1·4	21	−12
2. ENGLAND, N.E.	51	27	46·8	35·0	40·7	− 0·6	13	− 9	26	+ 1	5	+ 1	0·67	+0·30	2·7	−1·6	23	−14
3. ENGLAND, EAST ...	55	29	49·1	37·0	42·9	+ 1·1	27	− 1	14	− 13	7	+ 3	1·23	+0·86	2·5	−1·8	21	−15
4. MIDLAND COUNTIES ...	55	28	47·9	34·9	41·2	− 0·6	17	− 11	28	+ 1	6	+ 3	1·18	+0·81	2·2	−1·7	18	−14
5. ENGLAND, S.E.	54	31	49·3	38·1	43·5	+ 0·6	27	− 1	11	− 9	7	+ 4	1·70	+1·30	2·7	−1·6	23	−13
Western.																		
6. SCOTLAND, WEST ...	53	27	46·9	35·7	41·2	− 0·3	14	− 6	25	+ 3	5	0	0·67	−0·13	2·8	−1·1	23	− 9
7. ENGLAND, N.W.	53	27	47·3	36·1	41·6	− 0·3	15	− 6	24	+ 4	6	+ 3	1·05	+0·52	2·9	−1·0	24	− 8
8. ENGLAND, S.W.	54	30	48·7	38·3	43·3	0·0	25	− 2	10	− 6	7	+ 4	1·90	+1·32	2·9	−1·5	24	−12
9. IRELAND, NORTH ...	53	31	47·6	35·8	41·5	− 0·9	16	− 7	24	+ 5	6	+ 2	1·19	+0·57	3·2	−0·5	26	− 4
10. IRELAND, SOUTH ...	60	31	49·9	37·6	43·6	− 0·3	30	0	12	− 3	7	+ 3	1·10	+0·44	4·5	+0·3	38	+ 3
11. ENGLISH CHANNEL ...	54	35	51·2	41·0	46·0	+ 0·3	32	0	3	− 3	7	+ 3	2·51	+2·04	3·0	−2·2	25	−19

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 3 Weeks, March 3rd to March 23rd, 1912.

0. SCOTLAND, NORTH ...	55	26	*	*	*	*	48	+ 18	58	− 36	16	0	2·60	−0·52	3·2	+0·3	28	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	58	21	*	*	*	*	56	+ 11	74	− 29	15	+ 3	1·60	+0·01	2·8	−0·6	24	− 6
2. ENGLAND, N.E	59	27	*	*	*	*	68	+ 13	51	− 32	14	+ 3	1·85	+0·64	2·8	−1·1	24	−10
3. ENGLAND, EAST ...	58	29	*	*	*	*	86	+ 17	31	− 58	17	+ 7	2·43	+1·39	2·5	−1·4	22	−12
4. MIDLAND COUNTIES ...	59	28	*	*	*	*	76	+ 6	50	− 39	15	+ 6	3·14	+1·98	2·3	−1·2	20	−10
5. ENGLAND, S.E.	58	29	*	*	*	*	87	+ 16	24	− 44	18	+ 9	3·27	+2·02	3·0	−0·8	26	− 7
Western.																		
6. SCOTLAND, WEST ...	59	27	*	*	*	*	60	+ 13	46	− 30	16	+ 3	2·66	+0·25	3·1	−0·3	27	− 3
7. ENGLAND, N.W.	56	27	*	*	*	*	68	+ 16	40	− 28	15	+ 4	2·66	+1·06	2·8	−0·6	25	− 5
8. ENGLAND, S.W.	56	30	*	*	*	*	83	+ 12	21	− 35	20	+ 9	5·07	+3·25	2·9	−1·0	25	− 8
9. IRELAND, NORTH ...	58	31	*	*	*	*	72	+ 11	47	− 17	18	+ 5	2·45	+0·66	3·5	+0·2	30	+ 2
10. IRELAND, SOUTH ...	63	29	*	*	*	*	99	+ 19	32	− 18	20	+ 8	3·36	+1·38	4·3	+0·5	37	+ 4
11. ENGLISH CHANNEL ...	58	35	*	*	*	*	106	+ 20	3	− 19	20	+ 8	5·05	+3·53	3·2	−1·5	27	−14

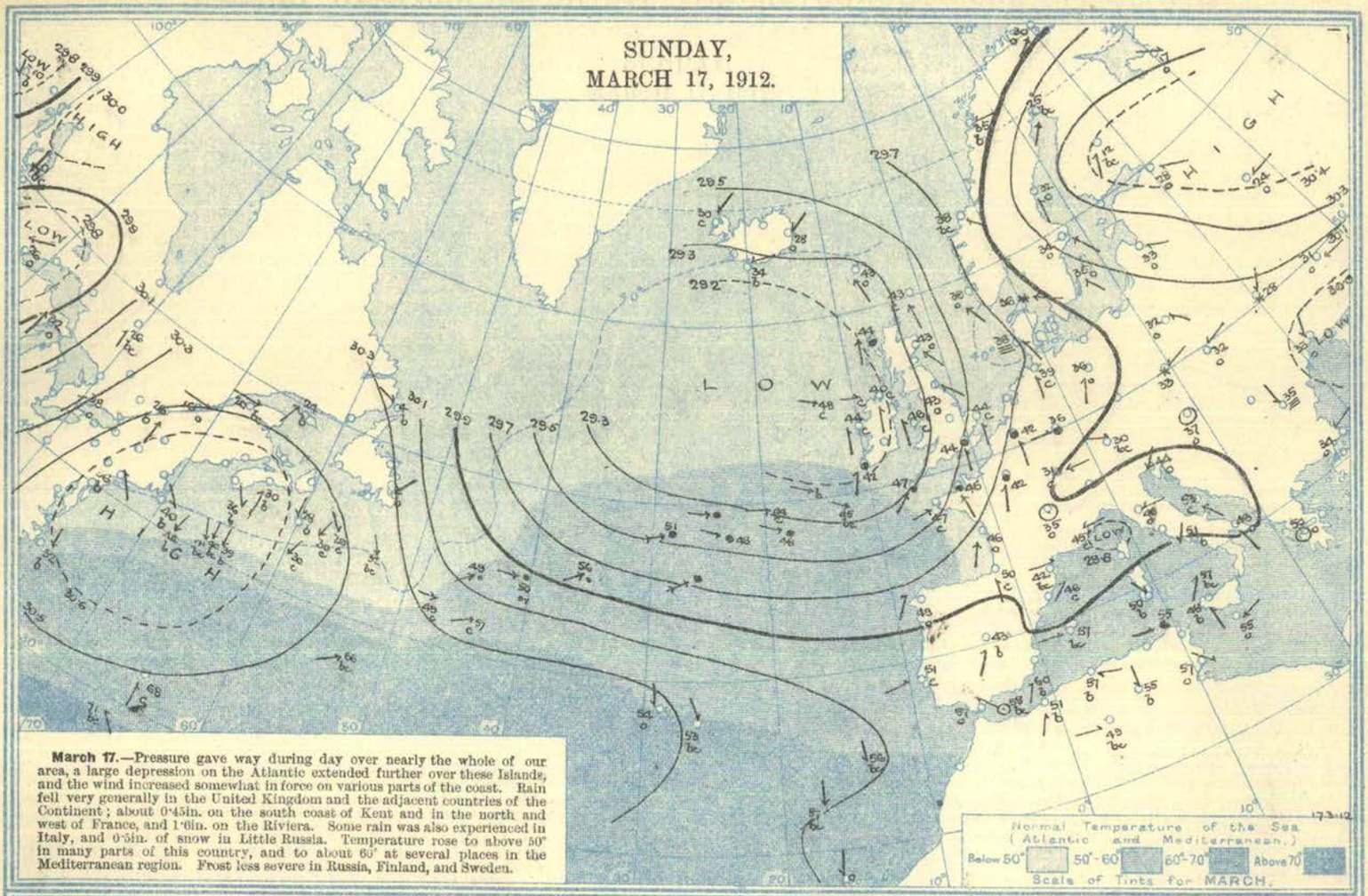
THE YEAR.—Aggregates, &c., for the Period of 12 Weeks, December 31st, 1911, to March 23rd, 1912.

0. SCOTLAND, NORTH ...	57	7	*	*	*	*	122	+ 32	354	− 70	60	− 2	10·17	−3·91	2·0	+0·2	22	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	58	−5	*	*	*	*	131	+ 18	417	− 63	58	+11	6·99	+0·41	1·9	−0·4	20	− 5
2. ENGLAND, N.E.	60	10	*	*	*	*	169	+ 34	322	− 62	55	+11	6·35	+1·75	1·8	−0·7	19	− 8
3. ENGLAND, EAST ...	60	14	*	*	*	*	218	+ 59	238	−190	56	+12	6·72	+2·31	1·7	−0·9	18	−10
4. MIDLAND COUNTIES ...	60	9	*	*	*	*	203	+ 29	322	−103	53	+11	8·86	+3·52	1·6	−0·7	17	− 8
5. ENGLAND, S.E.	58	13	*	*	*	*	242	+ 53	194	−133	57	+16	9·09	+3·39	1·8	−0·8	18	− 8
Western.																		
6. SCOTLAND, WEST ...	59	12	*	*	*	*	151	+ 15	299	− 39	55	+ 2	11·41	+0·15	1·9	−0·2	20	− 3
7. ENGLAND, N.W.	60	7	*	*	*	*	192	+ 46	271	− 48	54	+ 7	8·44	+1·17	2·0	−0·2	21	− 3
8. ENGLAND, S.W.	60	9	*	*	*	*	261	+ 39	180	− 75	66	+19	13·25	+4·43	2·0	−0·6	21	− 6
9. IRELAND, NORTH ...	60	15	*	*	*	*	231	+ 45	218	− 63	52	− 3	9·14	+0·82	2·2	0·0	24	0
10. IRELAND, SOUTH ...	63	13	*	*	*	*	308	+ 42	162	− 53	66	+16	12·21	+2·68	2·5	−0·1	26	0
11. ENGLISH CHANNEL ...	60	27	*	*	*	*	427	+122	44	− 57	59	+ 6	11·38	+3·95	2·4	−0·8	25	− 8

NOTES ON TABLE IV.

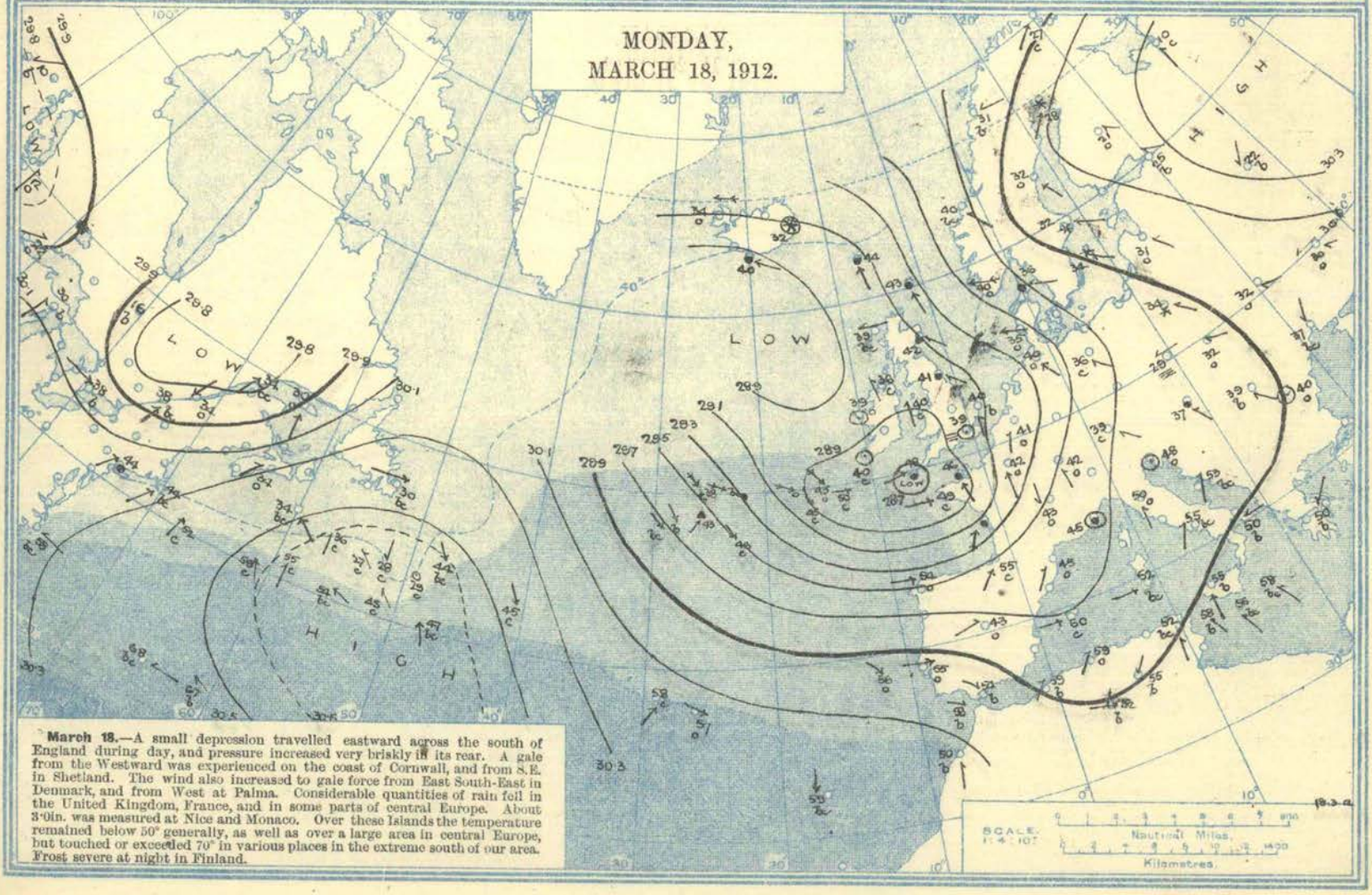
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

SUNDAY, MARCH 17, 1912.

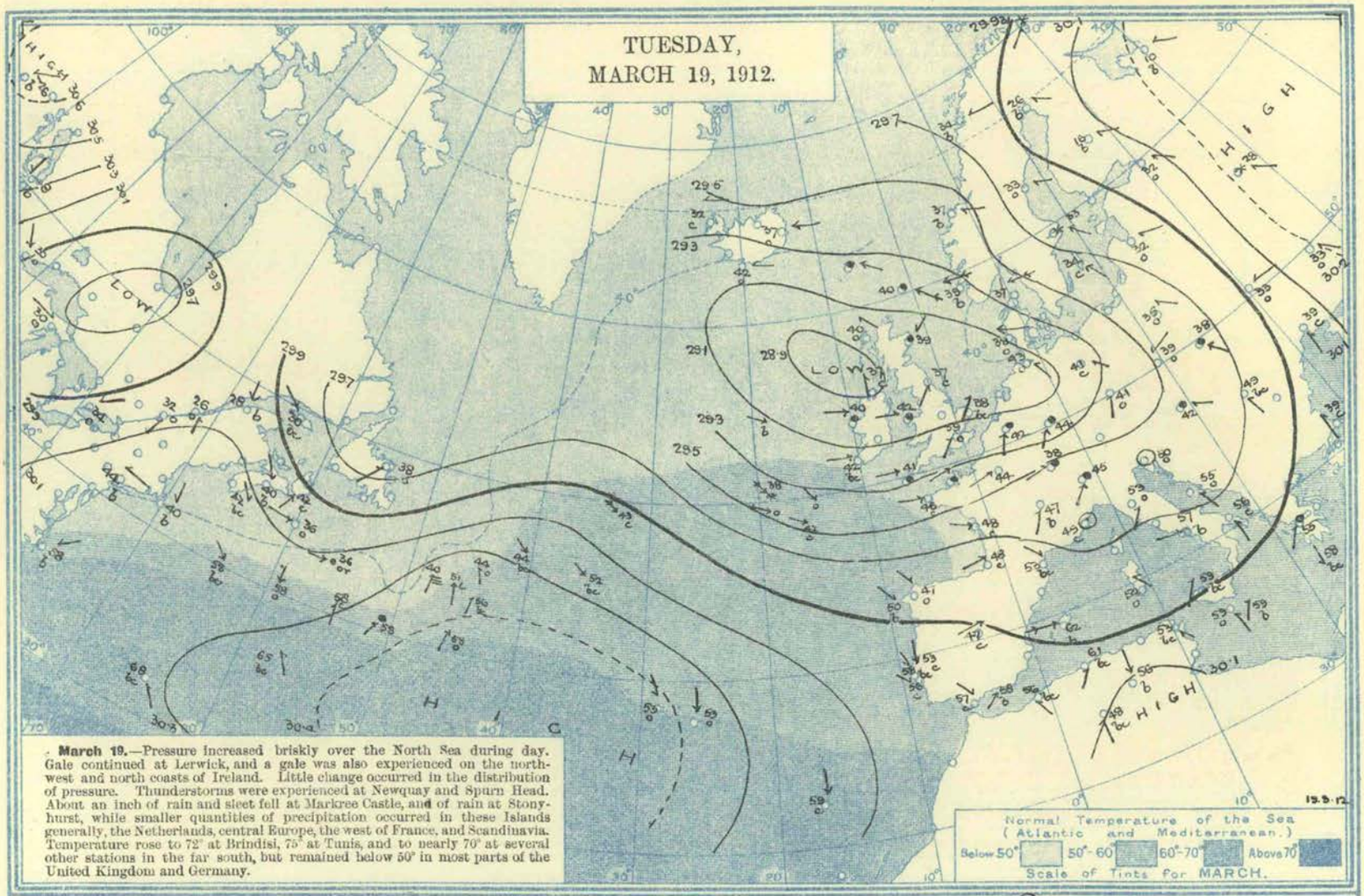


March 17.—Pressure gave way during day over nearly the whole of our area, a large depression on the Atlantic extended further over these Islands, and the wind increased somewhat in force on various parts of the coast. Rain fell very generally in the United Kingdom and the adjacent countries of the Continent; about 0·45in. on the south coast of Kent and in the north and west of France, and 1·6in. on the Riviera. Some rain was also experienced in Italy, and 0·5in. of snow in Little Russia. Temperature rose to above 50° in many parts of this country, and to about 60° at several places in the Mediterranean region. Frost less severe in Russia, Finland, and Sweden.

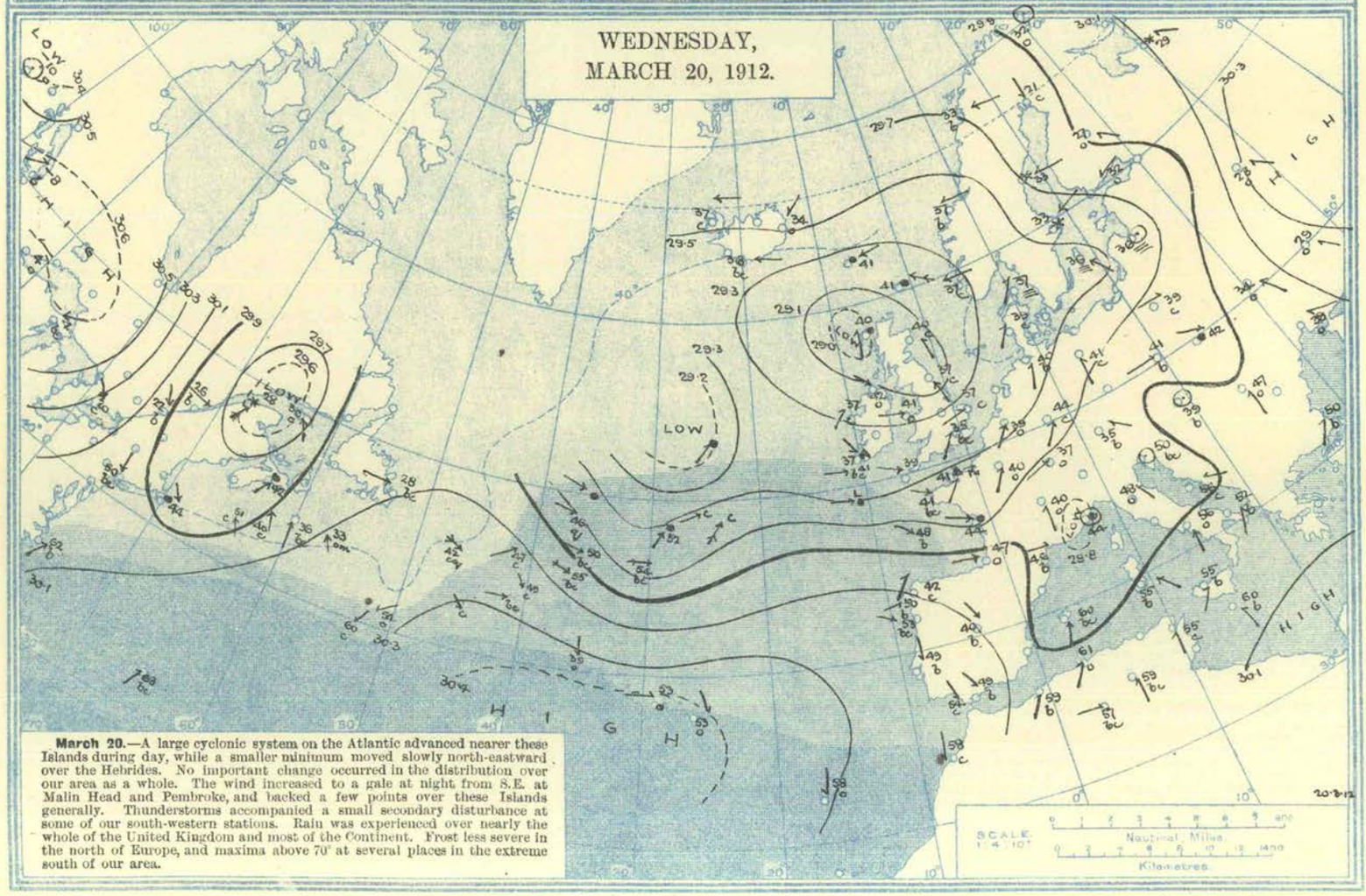
MONDAY, MARCH 18, 1912.



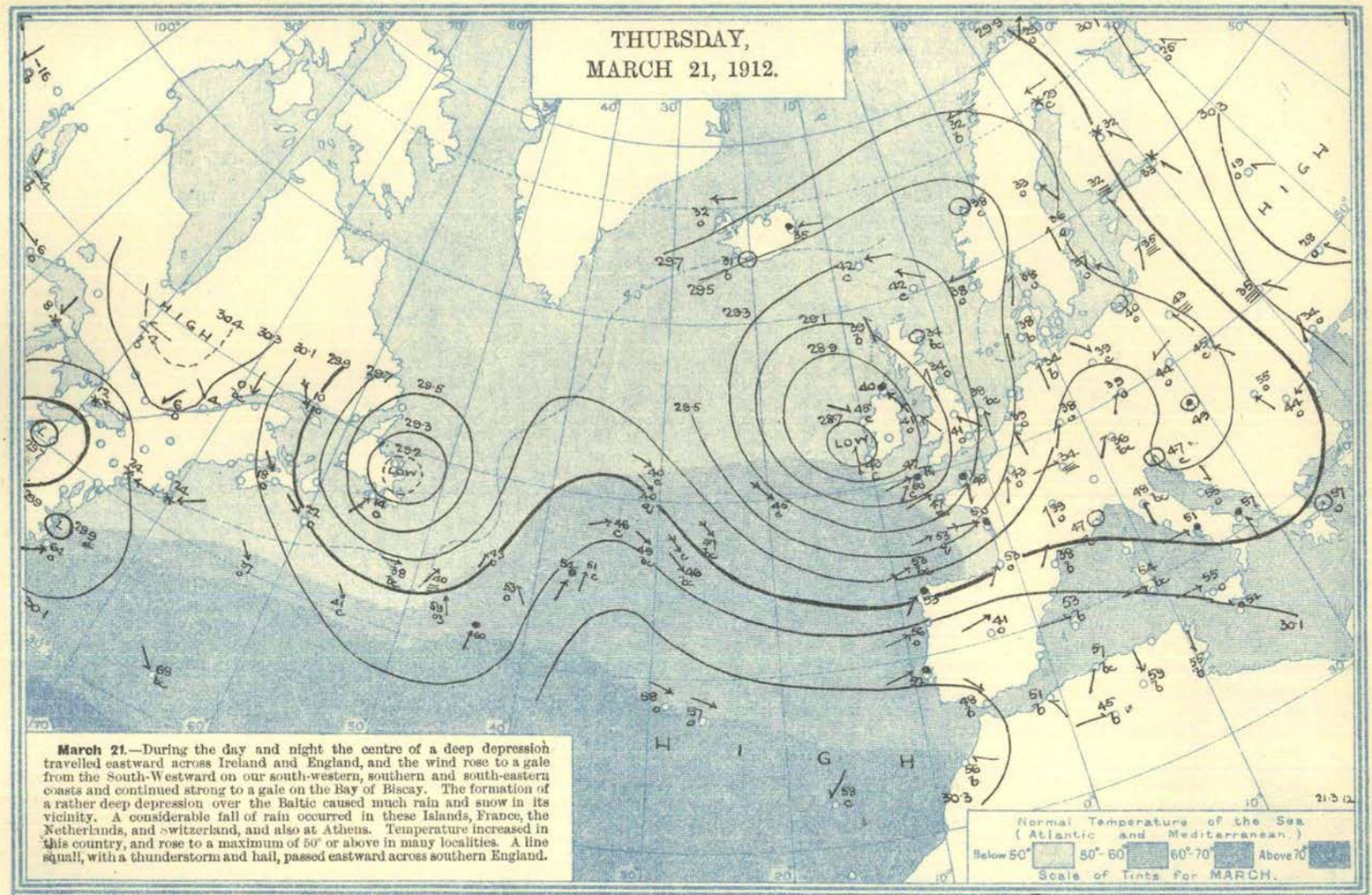
March 18.—A small depression travelled eastward across the south of England during day, and pressure increased very briskly in its rear. A gale from the Westward was experienced on the coast of Cornwall, and from S.E. in Shetland. The wind also increased to gale force from East South-East in Denmark, and from West at Palma. Considerable quantities of rain fell in the United Kingdom, France, and in some parts of central Europe. About 3·0in. was measured at Nice and Monaco. Over these Islands the temperature remained below 50° generally, as well as over a large area in central Europe, but touched or exceeded 70° in various places in the extreme south of our area. Frost severe at night in Finland.



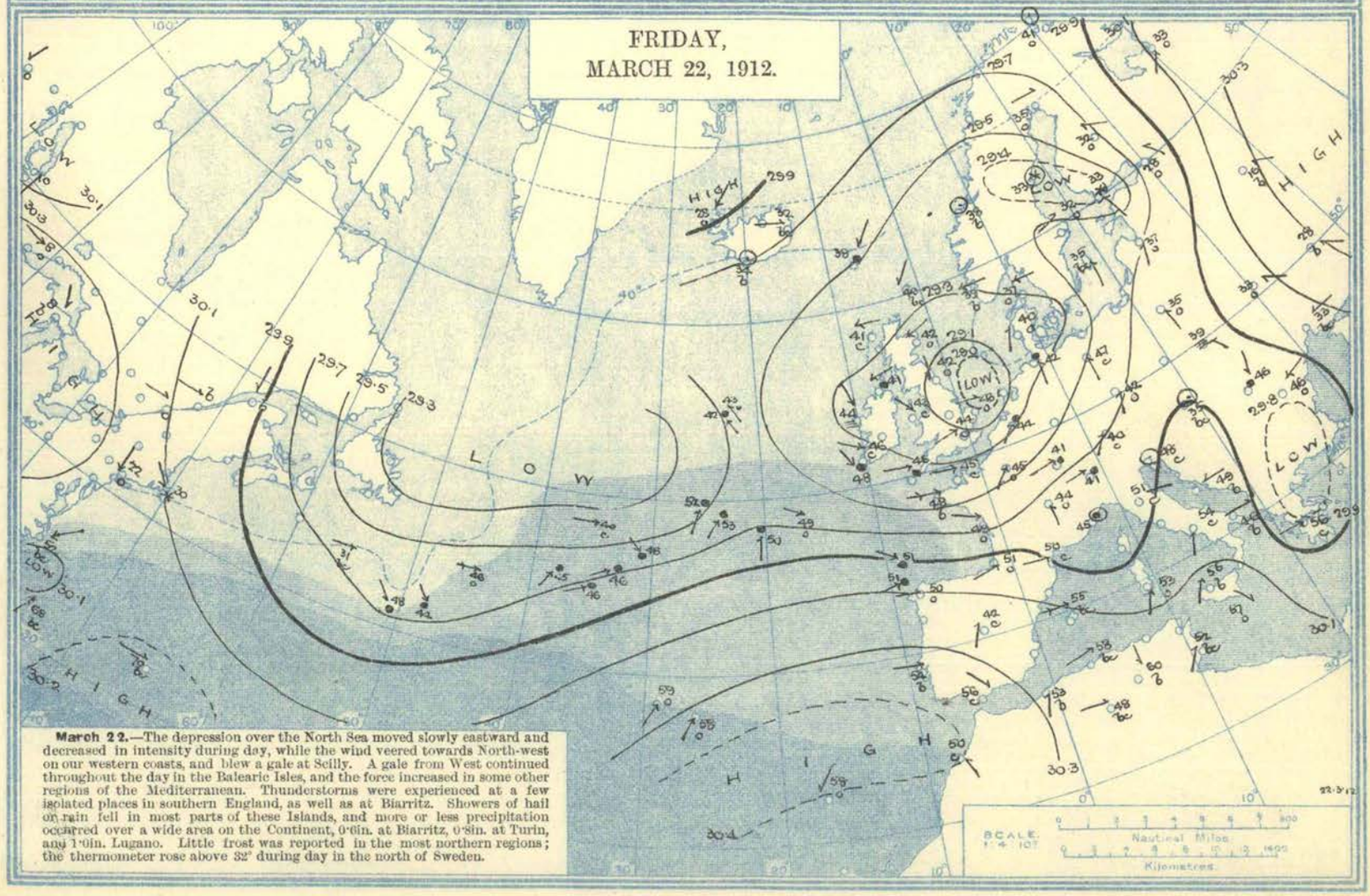
March 19.—Pressure increased briskly over the North Sea during day. Gale continued at Lerwick, and a gale was also experienced on the north-west and north coasts of Ireland. Little change occurred in the distribution of pressure. Thunderstorms were experienced at Newquay and Spurn Head. About an inch of rain and sleet fell at Markree Castle, and of rain at Stony-hurst, while smaller quantities of precipitation occurred in these Islands generally, the Netherlands, central Europe, the west of France, and Scandinavia. Temperature rose to 72° at Brindisi, 75° at Tunis, and to nearly 70° at several other stations in the far south, but remained below 50° in most parts of the United Kingdom and Germany.



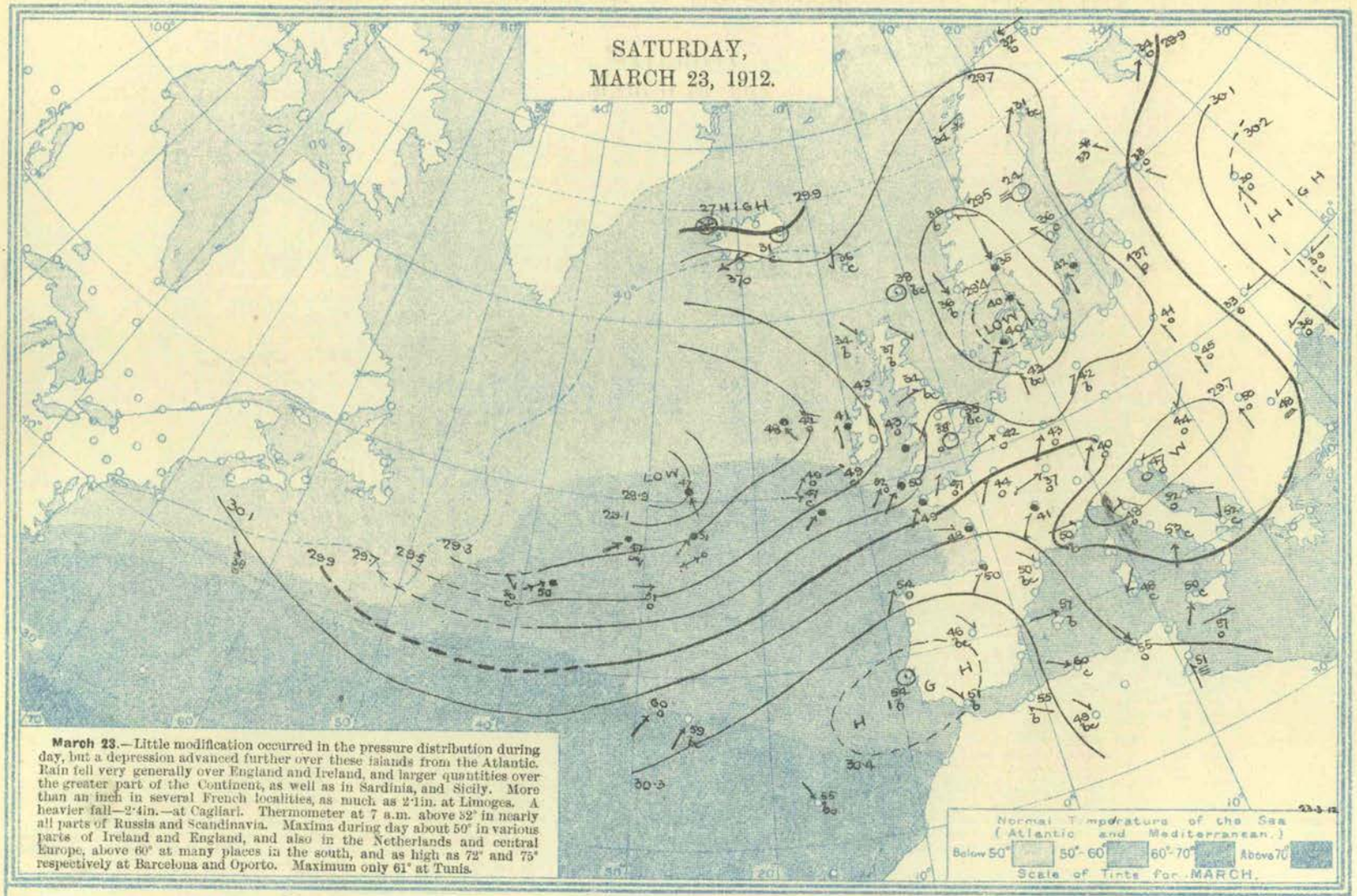
March 20.—A large cyclonic system on the Atlantic advanced nearer these Islands during day, while a smaller minimum moved slowly north-eastward over the Hebrides. No important change occurred in the distribution over our area as a whole. The wind increased to a gale at night from S.E. at Malin Head and Pembroke, and backed a few points over these Islands generally. Thunderstorms accompanied a small secondary disturbance at some of our south-western stations. Rain was experienced over nearly the whole of the United Kingdom and most of the Continent. Frost less severe in the north of Europe, and maxima above 70° at several places in the extreme south of our area.



March 21.—During the day and night the centre of a deep depression travelled eastward across Ireland and England, and the wind rose to a gale from the South-Westward on our south-western, southern and south-eastern coasts and continued strong to a gale on the Bay of Biscay. The formation of a rather deep depression over the Baltic caused much rain and snow in its vicinity. A considerable fall of rain occurred in these Islands, France, the Netherlands, and Switzerland, and also at Athens. Temperature increased in this country, and rose to a maximum of 50° or above in many localities. A line squall, with a thunderstorm and hail, passed eastward across southern England.

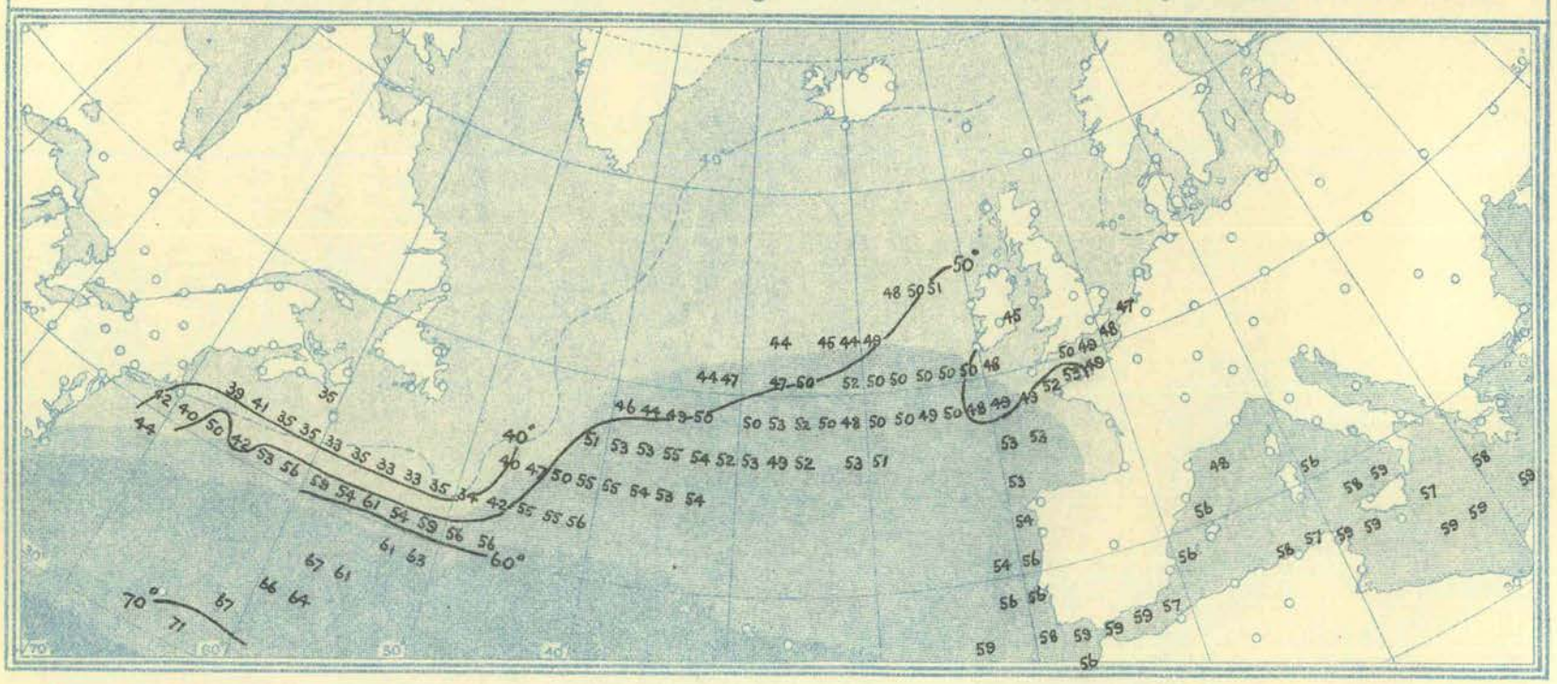


March 22.—The depression over the North Sea moved slowly eastward and decreased in intensity during day, while the wind veered towards North-west on our western coasts, and blew a gale at Scilly. A gale from West continued throughout the day in the Balearic Isles, and the force increased in some other regions of the Mediterranean. Thunderstorms were experienced at a few isolated places in southern England, as well as at Biarritz. Showers of hail or rain fell in most parts of these Islands, and more or less precipitation occurred over a wide area on the Continent, 0·6in. at Biarritz, 0·8in. at Turin, and 1·0in. Lugano. Little frost was reported in the most northern regions; the thermometer rose above 32° during day in the north of Sweden.



March 23.—Little modification occurred in the pressure distribution during day, but a depression advanced further over these islands from the Atlantic. Rain fell very generally over England and Ireland, and larger quantities over the greater part of the Continent, as well as in Sardinia, and Sicily. More than an inch in several French localities, as much as 2·1in. at Limoges. A heavier fall—2·4in.—at Cagliari. Thermometer at 7 a.m. above 32° in nearly all parts of Russia and Scandinavia. Maxima during day about 50° in various parts of Ireland and England, and also in the Netherlands and central Europe, above 60° at many places in the south, and as high as 72° and 75° respectively at Barcelona and Oporto. Maximum only 61° at Tunis.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 23RD MARCH, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* | No. 13. THIRTEENTH WEEK, SUNDAY, MARCH 24TH, TO SATURDAY, MARCH 30TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. Over the eastern, southern, and south-western counties of England the conditions were mostly fair and dry, but elsewhere rain was of frequent occurrence, although it was seldom heavy. A thunderstorm was experienced at Markree Castle on the 26th, at several stations in the north and north-west on the 29th, and at Colmonell on the 30th. Showers of hail, sleet, or snow were reported in many northern localities late in the week.

Temperature was above the average, the excess being large generally—as much as 7° in England East—but only 2° in Scotland North. The highest of the maxima were registered, as a rule, on the 25th, and varied from 63° over a considerable portion of England and 62° in Ireland South to 55° in Scotland North and West. The lowest of the minima occurred on the 24th in some parts of the Kingdom, but generally on the 29th or 30th. In Scotland East the thermometer fell to 28°, but elsewhere the readings ranged from 32° in Scotland North and England North East and South East to 40° in the English Channel. The lowest grass minima reported were 22° at Buxton, 25° at Balmoral and Marlborough, and 27° at Hampstead. At all stations the temperature both at 1 foot and at 4 feet below the surface was again considerably in excess of the normal.

Mean Temperature of the Sea. The water was warmer at every station than during the corresponding week of last year, and at all places except Teelin and Cleggan its temperature was above the average.

Rainfall was considerably in excess of the normal in Scotland, England North-West, and Ireland North. Elsewhere it was less, the total fall in England South-East and East and in the English Channel being below 0·1 in. At Fort William on the 26th the fall amounted to 1·49 in.

Bright Sunshine was above the average throughout the Eastern section and in Scotland North, below it elsewhere. The mean daily duration was less than 3 hours in Ireland, but more than 5 hours in all the eastern parts of Great Britain. The percentage of the possible duration ranged from 45 in Scotland East and England South-East to 28 in England North-West, and to 23 and 20 respectively in Ireland South and North.

Barometer and Wind. At the beginning of the week a band of low pressure extended from the Atlantic across these Islands to Germany, the wind being moderate to strong from the Westward over all our more southern districts, and light from the Eastward or South-Eastward in the north. From Monday onward, however, the centres of the low pressure systems remained to the North-Westward or Northward, and only a few small irregularities of pressure passed directly across the country. During the earlier days the main wind current was South-Westerly, and its force mostly moderate to fresh except on a few exposed parts of the coast. Later in the period the wind veered to the Westward and underwent a general increase of force. A gale from West or West-North-West was experienced on several parts of the north and north-east coasts on Thursday, and a South-Westerly to Westerly gale on some exposed points on Friday and Saturday.

THE WEEK.

For explanation of the terms "Unusual," &c. *see* p 51.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Very Heavy	~~Very~~ Heavy	Light	Light	Light	Light	Very heavy	Heavy	Moderate	Heavy	Moderate	Light
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 4 weeks from March 3rd, 1912.	Warmth ...	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0	3 * 0
	Rainfall ...	1 * 1	2 * 0	3 * 1	2 * 1	3 * 1	2 * 1	1 * 0	3 * 0	3 * 0	2 * 0	2 * 0	3 * 1
	Sunshine ...	1 * 0	1 * 1	0 * 2	0 * 2	0 * 2	2 * 2	1 * 1	1 * 2	1 * 2	1 * 2	1 * 1	0 * 2

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 5	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(23745—24.) Wt. 113—14. 450. 4/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Average	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hrs.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*52*	*25th*	*32*	*30th*	*46·5*	*36·5*	*41·4*	—	*13*	*23*	•	•	41·7	•	•	•	7	*0·92*	—	*4·4*	—	*35*	—	*Baltasound.*
a Lerwick	50	25th	33	24, 30	46·6	35·3	40·8	+ 1·4	13	26	•	•	•	•	•	•	7	1·34	—	4·4	+ 0·4	35	+ 3	Deerness.
a, Islands .. *a* Stornoway	52	27th	33	24th	48·3	38·1	43·1	+ 2·3	24	11	•	•	•	•	•	•	7	1·43	+ 0·59	4·5	+ 0·4	36	+ 3	Stornoway.
a Castlebay, Barra Isd.	*49*	*24, 25, 27*	*36*	*29th*	*47·7*	*40·6*	*44·1*	+ *0·4*	*21*	*4*	•	•	•	•	•	•	7	*0·88*	—	*3·3*	—	*26*	—	*Castlebay.*
a Wick	55	25th	33	29, 30	47·0	37·0	41·9	+ 1·2	14	20	•	•	•	•	•	•	6	0·90	+ 0·42	•	•	•	•	•
b, Main- *p* Strathpeffer ..	53	25th	33	24th	49·0	37·9	43·3	+ 2·7	26	11	•	•	•	•	•	•	7	1·46	+ 0·96	4·6	+ 1·1	37	+ 8	Strathpeffer.
land. *p* Glencarron ..	48	24, 25	32	29th	46·2	36·2	41·1	+ 1·5	12	23	•	•	•	•	•	•	7	3·17	+ 1·59	•	•	•	•	•
p Fort Augustus..	52	27th	33	30th	48·6	37·3	42·8	+ 2·2	25	13	•	•	•	•	•	•	7	1·88	+ 1·17	2·7	— 0·3	21	— 3	Fort Augustus.
p Fort William ..	52	27th	35	30th	48·9	38·7	43·7	+ 1·9	26	9	•	•	•	•	•	•	7	3·47	+ 2·15	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle..	59	25th	29	24th	50·9	36·7	43·6	+ 1·9	33	15	3	23	41·8	+1·9	41·6	+2·1	—	—	—	6·3	—	50	—	Crathes S.
a Nairn	56	25th	28	24th	50·6	35·0	42·6	+ 1·7	34	20	•	•	•	•	•	•	6	0·61	+ 0·13	*5·1*	—	*41*	—	*Gordon Castle.*
a Aberdeen ..	60	25th	35	24, 25	52·0	37·7	44·6	+ 3·3	36	12	•	•	•	•	42·2	+1·9	6	0·61	+ 0·23	4·9	—	39	—	Nairn.
a Balmoral ..	54	26, 27	28	24th	49·7	35·0	42·1	+ 4·7	30	20	3	25	•	•	•	•	5	0·11	- 0·49	6·4	+ 2·1	51	+17	Aberdeen.
p Crieff	58	25th	33	29th	50·3	36·8	43·3	+ 1·5	32	15	•	•	•	•	•	•	7	0·69	+ 0·09	•	•	•	•	Balmoral.
a Leith	60	25th	32	24th	52·6	39·7	46·0	+ 3·5	38	6	•	•	•	•	•	•	7	1·32	+ 0·70	5·5	—	44	—	Balruddery.
p West Linton ..	57	25th	32	29th	49·1	35·7	42·2	+ 2·9	28	18	•	•	•	•	•	•	7	0·55	+ 0·24	•	•	•	•	•
p Marchmont ..	58	25th	34	28th	51·3	38·1	44·5	+ 4·3	34	11	2	30	42·4	+2·7	•	•	7	1·41	—	*3·3*	—	*26*	—	*West Linton.*
																	4	0·32	- 0·22	5·3	+ 1·4	42	+11	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	58	25th	36	29, 30	53·0	41·6	47·1	+ 5·9	37	1	0	31	43·3	+3·5	42·7	+2·4	4	0·08	- 0·44	5·9	—	47	—	Cockle Park.
a Shields	61	25th	32	24th	53·4	39·0	46·0	+ 4·2	41	8	•	•	•	•	•	•	4	0·15	- 0·23	•	•	•	•	•
p Durham	57	25th	37	29th	52·6	41·3	46·8	+ 5·6	37	2	0	33	•	•	•	•	3	0·34	- 0·03	5·7	+ 1·8	45	+14	Durham.
a, North .. *p* Rounton	58	25th	35	30th	53·1	40·8	46·8	+ 5·8	39	3	1	30	44·2	•	•	•	6	0·31	- 0·14	•	•	•	•	Rounton.
a West Witton ..	*57*	*25th*	*34*	*30th*	*51·0*	*40·3*	*45·5*	—	*32*	*5*	0	31	42·4	•	41·1	•	*7*	*0·70*	—	•	•	•	•	*West Witton.*
p Scarborough ..	61	25th	38	29, 30	55·6	42·9	49·1	+ 6·8	50	0	•	•	•	•	•	•	6	0·33	- 0·08	4·8	—	38	—	Scarborough.
p York	54	25, 26	39	29, 30	54·6	42·3	48·3	+ 5·5	44	0	•	•	44·3	+2·8	43·6	+2·1	5	0·12	- 0·26	3·9	+ 0·2	31	+ 2	York.
a Spurn Head ..	57	26th	36	24th	52·3	41·0	46·5	+ 4·2	36	3	0	33	45·0	+3·6	44·0	+2·6	4	0·07	- 0·21	*4·5*	—	*36*	—	*Hull.*
b, South .. *a* Lincoln	59	25, 26	37	24th	55·8	42·7	49·1	+ 6·3	50	0	•	•	44·6	+3·4	43·8	+2·5	3	0·13	- 0·21	•	•	•	•	Lincoln.
a Fulbeck	58	25th	37	24, 29, 30	55·7	41·3	48·3	+ 5·5	47	2	1	29	46·4	+3·6	44·7	+2·0	3	0·06	- 0·30	5·2	—	41	—	Rauceby.
											•	•	•	•	•	•	—	—	—	5·3	—	42	—	Skegness.
3. ENGLAND, E.											0	32	46·9	+4·0	45·4	+2·8	—	—	—	*4·5*	—	*36*	—	*Lowestoft.*
p Crömer	61	25th	37	29th	55·6	41·9	48·6	+ 6·8	47	0	•	•	•	•	•	•	3	0·05	—	4·6	—	37	—	Cromer.
p Hillington ..	60	25th	35	29th	56·0	42·4	49·0	+ 6·4	49	0	1	28	•	•	•	•	2	0·04	- 0·36	4·5	+ 0·3	36	+ 3	Hillington.
a, North .. *a* Yarmouth ..	62	25th	34	24th	55·1	42·3	48·5	+ 6·8	46	0	•	•	46·7	+3·7	46·7	+2·8	1	0·02	- 0·32	*4·3*	—	*34*	—	*Yarmouth.*
a Norwich ..	63	25th	37	29th	56·7	43·6	50·0	+ 7·7	56	0	0	31	46·5	•	•	•	2	0·07	—	*4·8*	—	*38*	—	*Norwich.*
p Geldeston ..	63	25th	37	29th	57·3	44·1	50·5	+ 8·0	60	0	•	•	•	•	•	•	1	0·02	- 0·34	4·3	- 0·3	34	- 2	Geldeston.
p Cambridge	62	25th	37	29th	57·7	44·3	50·8	+ 7·6	62	0	1	28	47·7	+4·6	46·4	+2·9	0	0·00	- 0·31	5·7	+ 1·2	45	+10	Cambridge.
a Felixstowe ..	*60*	*25th*	*39*	*29th*	*56·1*	*44·4*	*50·1*	+ *7·3*	*57*	*0*	•	•	•	•	•	•	*2*	*0·04*	—	*5·9*	—	*47*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	60	25th	36	24th	56·6	43·4	49·8	+ 7·4	55	0	0	33	47·4	+4·2	47·3	+2·9	3	0·10	—	6·1	—	49	—	Clacton.
a Rothamsted ..	60	25th	38	29th	56·4	43·6	49·8	+ 7·4	55	0	•	•	•	•	•	•	3	0·04	- 0·36	5·6	+ 1·4	45	+11	Rothamsted.
a Shoeburyness ..	*62*	*25th*	*38*	*29th*	*57·6*	*44·1*	*50·7*	+ *6·8*	*61*	*0*	0	31	48·3	+5·2	•	•	*1*	*0·04*	- *0·22*	*5·1*	—	*41*	—	*Southend.*
p Tottenham ..	61	25th	40	29th	57·4	46·9	52·0	+ 8·5	70	0	0	37	•	•	46·8	+3·2	0	0·00	—	5·9	—	48	—	Tottenham.
4. MIDLAND COUNTIES.											0	33	43·5	+3·6	42·5	+2·4	—	—	—	*4·2*	—	*33*	—	*Huddersfield.*
a Harrogate	56	26th	35	29, 30	51·3	40·9	46·0	+ 4·7	33	3	0	33	42·8	+2·4	42·4	+1·6	6	0·57	+ 0·10	5·4	—	43	—	Harrogate.
a Bawtry	59	26th	38	30th	51·7	43·3	48·8	+ 6·0	48	0	0	32	45·2	•	44·2	•	3	0·13	- 0·20	4·4	+ 0·7	35	+ 6	Worksop.
p Buxton	*53*	*25, 26, 28*	*36*	*29, 30*	*50·0*	*40·1*	*44·9*	+ *5·3*	*28*	*5*	1	32	43·1	+3·2	43·1	+2·5	*7*	*1·09*	+ *0·25*	*4·0*	—	*32*	—	*Buxton.*
a East .. *a* Nottingham ..	58	25th	33	24th	54·9	41·7	48·1	+ 5·4	44	1	0	32	46·1	+5·1	43·4	+2·9	6	0·14	- 0·20	4·8	—	38	—	Nottingham.
p Birmingham, Edgbsn.	57	25th	37	29, 30	53·3	42·6	47·8	+ 5·3	41	0	1	31	44·6	+3·3	44·9	+2·0	5	0·09	- 0·32	3·8	—	30	—	Birmingham.
a Raunds	63	25th	36	29th	57·7	43·3	50·3	+ 7·9	58	0	0	32	45·5	•	45·4	•	1	0·01	—	•	•	•	•	Raunds.
a Oxford	61	25th	37	29th	56·7	43·7	50·0	+ 6·5	56	0	0	32	•	•	•	•	2	0·02	- 0·29	5·2	+ 1·0	42	+ 8	Oxford.
											0	35	43·8	+3·3	42·9	+2·2	—	—	—	5·1	—	41	—	Sheffield.
a Cheadle	56	26th	34	29th	52·3	40·3	46·1	+ 4·8	36	5	1	30	•	•	•	•	5	0·30	- 0·18	•	•	•	•	Cheadle.
p Shrewsbury ..	57	25, 26	36	28th	53·4	41·9	47·5	+ 4·2	39	0	0	32	•	•	•	•	5	0·13	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	59	27th	37	29th	56·4	43·2	49·6	+ 6·1	53	0	1	30	•	•	•	•	3	0·09	- 0·30	•	•	•	•	Hereford.
a Cirencester ..	60	27, 28	33	29th	56·0	41·6	48·6	+ 6·5	48	1	0	33	45·5	•	44·8	•	4	0·09	- 0·33	5·5	+ 1·2	44	+10	Cirencester.
a Bath	62	25th	38	29th	56·4	44·3	50·2	+ 6·6	57	0	•	•	47·9	+3·6	46·4	+1·7	2	0·06	- 0·41	5·2	—	42	—	Bath.
5. ENGLAND, S.E.											0	34	48·2	+5·8	47·5	+3·4	—	—	—	•	•	•	•	Canterbury.
p Kew	61	25th	39	19th	56·7	46·4	51·4	+ 7·6	66	0	1	30	48·0	+5·6	46·6	+2·9	1	0·01	- 0·35	5·5	+ 1·5	44	+12	Kew.
a Marlborough ..	59	25th	32	29th	54·6	42·3	48·3	+ 6·6	44	0	2	25	•	•	•	•	2	0·05	- 0·45	4·5	+ 0·6	36	+ 5	Marlborough.
a Margate	63	25th	41	30th	57·3	45·8	51·3	+ 8·0	65	0	—	—	47·0	+4·5	46·1	+3·3	2	0·04	- 0·28	5·8	+ 1·4	47	+11	Margate.
a Wisley, Surrey ..	60	25th	37	29th	56·1	44·6	50·2	+ 6·2	57	0	1	29	47·9	+5·4	46·3	+2·9	1	0·01	—	5·6	—	45	—	Wisley
a Swarraton	60	26th	35	29th	55·1	43·7	49·2	+ 6·4	50	0	1	29	48·5	+5·0	47·2	+3·0	1	0·01	- 0·47	*5·1*	—	46	—	Worthing.
a Tunbridge Wells ..	59	26th	37	29th	55·4	43·0	49·0	+ 5·9	49	0	0	33	47·4	+5·3	•	•	0	0·00	- 0·46	6·2	+ 1·7	50	+14	Tunbridge Wells.
a Dungeness	56	26, 27	36	29th	53·4	44·3	48·7	+ 5·5	47	0	•	•	•	•	•	•	0	0·00	- 0·35	5·9	—	48	—	Littlestone.
p Hastings.. ..	56	24, 25	38	29th	53·9	44·7	49·2	+ 5·1	50	0	0	32	48·6	•	47·0	•	2	0·02	- 0·42	*5·8*	+ *0·9*	*47*	+ 7	*Hastings.*
p Southampton ..	60	26, 27, 28	37	29th	57·7	45·7	51·5	+ 5·7	67	0	1	29	•	•	•	•	0	0·00	- 0·47	5·3	+ 0·7	43	+ 6	Southampton.
a Ventnor	56	26th	38	29th	53·6	45·0	49·2	+ 4·0	50	0	•	•	•	•	•	•	2	0·03	- 0·38	5·7	+ 0·5	46	+ 4	Ventnor.
											0	34	48·6	+4·2	47·9	+2·4	—	—	—	*5·3*	—	*43*	—	*Portsmouth.*
											•	•	48·5	•	47·6	•	—	—	—	5·6	+ 0·7	45	+ 6	Eastbourne.
											•	•	47·5	•	46·8	•	—	—	—	*5·1*	—	*41*	—	*Bournemouth.*
LONDON.											0	32	•	•	46·6	•	—	—	—	*5·3*	+ *0·5*	*43*	+ *4*	*Brighton.*
a Westminster ..	*61*	*25, 26*	*39*	*29th*	*58·6*	*46·1*	*52·2*	+ *8·4*	*71*	*0*	0	31	•	•	•	•	*2*	*0·02*	- *0·34*	*5·3*	+ *2·5*	*43*	+20	*Westminster.*
a Greenwich ..	*62*	*25, 26*	*38*	*29th*	*58·7*	*45·1*	*51·7*	+ *7·1*	*68*	*0*	1	30	•	•	•	•	*0*	*0·00*	- *0·36*	*5·8*	+ *2·0*	*47*	+17	*Greenwich.*
a Hampstead ..	*59*	*25, 26*	*36*	*29th*	*56·3*	*43·4*	*49·7*	—	*54*	*0*	2	27	•	•	•	•	*2*	*0·02*	—	*5·8*	—	*47*	—	*Hampstead.*
a Camden Square ..	*62*	*25th*	*37*	*29th*	*58·9*	*44·9*	*51·7*	—	*68*	*0*	0	35	•	•	•	•	*1*	*0·01*	—	*5·7*	—	*46*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch ..	51	27th	37	29, 30	47·3	41·0	44·1	+ 2·2	19	3	•	•	•	•	•	•	7	2·29	+ 1·57	•	•	•	•	•
p Glasgow	54	25th	36	28, 30	49·7	40·0	44·7	+ 3·0	27	6	0	33	•	•	•	•	7	1·63	+ 1·11	3·5	+ 0·3	28	+ 2	Glasgow.
p Rothesay	55	25th	38	28, 29, 30	49·7	40·9	45·2	+ 2·7	27	3	•	•	•	•	43·9	+1·7	7	2·40	+ 1·89	•	•	•	•	•
a Kilmarnock ..	54	25th	36	29th	50·1	41·7	45·8	+ 3·7	28	1	•	•	•	•	•	•	7	2·03	—	*2·9*	—	*23*	—	*Kilmarnock.*
a Colmonell ..	55	25th	36	30th	50·4	41·1	45·6	+ 3·0	29	3	0	33	•	•	•	•	6	1·64	+ 0·95	•	•	•	•	•
p Dumfries ..	54	27th	34	30th	51·0	39·7	45·2	+ 2·8	32	6	1	30	44·1	•	43·1	•	7	1·32	+ 0·72	*4·0*	—	*32*	—	*Dumfries.*
p Cally, Gatehouse	52	24, 27	35	24, 29	50·6	38·7	44·5	+ 2·4	31	9	•	•	•	•	•	•	5	1·95	+ 1·15	•	•	•	•	•
b I. OF MAN.																								
p Douglas	51	27th	39	29, 30	49·4	42·1	45·6	+ 3·0	25	0	0	35	•	•	•	•	6	0·76	+ 0·13	3·7	- 1·2	29	-10	Douglas.
											0	35	43·5	+3·9	42·9	+2·5	—	—	—	*2·4*	—	*19*	—	*Burnley.*
											0	36	•	•	•	•	—	—	—	4·5	—	36	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	54	25th	36	30th	51·3	40·4	45·7	+ 4·3	33	4	0	34	44·5	•	44·0	•	7	1·77	+ 1·16	3·4	—	27	—	Aspatria.
p Newton Rigg ..	56	25th	35	30th	50·7	39·7	45·0	+ 4·3	31	6	2	28	43·2	+2·2	42·0	+1·4	7	1·22	+ 0·68	4·1	0·0	32	0	Newton Rigg.
p Stonyhurst ..	55	26th	37	30th	49·9	42·1	45·9	+ 4·3	27	0	0	32	•	•	•	•	5	2·05	+ 1·32	2·7	- 1·3	21	-10	Stonyhurst.
p Blackpool	53	25, 26	40	30th	50·4	43·0	46·6	+ 4·2	32	0	•	•	•	•	•	•	7	0·90	+ 0·40	4·4	+ 0·3	35	+ 3	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	56	26th	37	24th	51·6	42·9	47·1	+ 3·2	36	0	•	•	•	•	•	•	6	0·72	+ 0·31	*3·7*	—	*29*	—	*Liverpool.*
a Hawarden Bridge ..	59	26th	36	24th	54·6	42·9	48·6	+ 4·4	46	0	0	33	45·4	+3·3	43·8	+1·4	5	0·26	- 0·07	*4·2*	*0·0*	*33*	*0*	*Southport.*
											0	37	44·5	+3·7	45·0	+2·7	—	—	—	*3·6*	—	*29*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	56	26th	41	29, 30	52·3	44·7	48·4	+ 4·4	45	0	•	•	•	•	•	•	5	0·72	+ 0·25	3·4	- 0·8	27	- 6	Llandudno.
a Holyhead ..	53	28th	41	29, 30	51·0	43·4	47·1	+ 3·2	36	0	•	•	•	•	•	•	6	0·57	+ 0·02	2·6	—	21	—	Aberdovey
p Bettws-y-Coed ..	54	27, 29	39	27th	52·4	42·4	47·3	+ 3·4	37	0	1	30	46·3	+4·8	45·0	+2·0	6	1·97	—	3·5	—	28	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.														**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	55	27th	36	29th	52·3	41·9	47·0	+ 5·4	35	0	1	28	45·0	+3·0	45·0	+1·8	7	1·14	—	3·9	—	23	—	Aberystwyth.
a Pembroke	51	25, 26, 27	42	24th	50·3	45·3	47·7	+ 3·9	40	0	*	*	°	*	°	*	4	0·31	- 0·16	3·9	- 0·9	32	- 7	Llangammarch
p Cardiff	56	25th	36	29th	53·6	44·0	48·7	+ 4·1	47	0	0	31	47·0	+4·8	45·7	+2·7	5	0·25	- 0·39	*4·6*	—	*37*	—	Pembroke.[Wells *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	62	25th	40	29th	55·6	45·6	50·5	+ 6·0	60	0	0	36	*	*	*	*	2	0·29	- 0·23	*5·6*	—	*45*	—	*Clifton.*
a Shaftesbury	55	27th	35	29th	52·7	41·4	46·9	+ 4·2	37	2	*	*	46·5	*	*	*	3	0·06	- 0·44	*	*	*	*	Shaftesbury.
a Arlington	54	25, 26, 27	38	24th	52·4	42·7	47·4	+ 4·8	38	0	*	*	48·7	*	*	*	4	0·53	- 0·24	4·0	- 0·8	32	- 7	Newquay.
a Cullompton	60	25th	36	29th	56·3	44·9	50·4	+ 6·4	59	0	1	30	48·0	*	*	*	3	0·15	- 0·38	4·0	- 0·4	32	- 3	Cullo npton.
a Portland	52	26, 27, 30	43	24th	51·1	46·6	48·8	+ 4·2	48	0	*	*	*	*	*	*	1	0·02	—	*4·9*	—	*40*	—	*Weymouth.*
p Plymouth	58	27th	37	29th	54·3	46·0	50·0	+ 4·9	56	0	1	28	48·9	+3·7	*	*	3	0·16	- 0·41	3·9	- 0·9	32	- 7	Plymouth.
p Falmouth	55	26, 27	42	29th	53·4	47·1	50·2	+ 5·1	57	0	*	*	*	*	*	*	3	0·19	- 0·48	4·5	- 0·5	36	- 4	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	54	25th	38	24, 29, 30	48·6	40·6	44·5	+ 1·6	23	4	*	*	*	*	*	*	7	1·00	+ 0·53	*	*	*	*	
a Blacksod Point ..	54	24, 25	39	24, 29	51·1	42·6	46·7	+ 2·0	33	0	*	*	*	*	*	*	6	1·84	+ 1·05	*	*	*	*	
p Markree Castle ..	57	25th	35	29th	52·1	40·3	46·0	+ 3·2	35	5	1	29	45·3	*	45·0	*	7	1·76	+ 1·09	1·9	- 2·0	15	-16	Markree Castle.
a Birr Castle	58	25th	35	29th	54·1	41·1	47·4	+ 4·7	42	3	*	*	*	*	*	*	7	0·90	+ 0·39	*2·9*	- *1·2*	*23*	-*10*	*Birr Castle.*
b, East .. *p* Armagh	59	25th	34	29th	53·3	40·6	46·8	+ 4·1	39	4	0	33	44·9	+1·7	44·3	+0·6	6	0·86	+ 0·36	3·1	- 0·7	25	- 6	Armagh.
a Donaghadee	56	26th	36	29, 30	52·1	41·4	46·6	+ 3·4	35	2	*	*	*	*	*	*	5	0·80	+ 0·33	*	*	*	*	
10. IRELAND, S.											1	30	46·8	+2·8	46·3	+1·7	—	—	—	*	*	*	*	Trinity Coll.
a. East .. *p* Dublin, City	60	25th	39	29th	55·3	43·7	49·3	+ 4·4	51	0	0	32	*	*	*	*	—	—	—	3·7	- 0·8	29	- 6	Phœnix Park.
a Kilkenny	58	24th	36	29, 30	54·3	43·1	48·5	+ 4·5	46	0	0	36	*	*	*	*	3	0·26	- 0·17	*	*	*	*	Dublin City.
a Waterford	57	27th	36	29th	53·1	43·3	48·1	+ 3·9	43	0	*	*	*	*	*	*	7	0·39	- 0·10	*	*	*	*	
																	5	0·31	- 0·30	*	*	*	*	
b, West .. *a* Birr Castle	58	25th	35	29th	54·1	41·1	47·4	+ 4·7	42	3	*	*	*	*	*	*	7	0·90	+ 0·39	2·9	- 1·2	23	-10	Birr Castle.
a Foynes	57	24th	40	29th	53·4	44·4	48·8	+ 4·0	48	0	*	*	*	*	*	*	7	1·06	+ 0·46	*	*	*	*	
a Cahir	57	24, 25	35	29th	53·9	43·1	48·3	+ 4·5	44	0	*	*	*	*	*	*	6	0·37	—	*	*	*	*	
a Killarney	62	24th	39	29th	55·7	45·1	50·2	+ 5·2	57	0	*	*	*	*	*	*	7	0·98	+ 0·03	*	*	*	*	
a Valencia	56	24th	45	29, 30	52·0	47·0	49·4	+ 3·5	52	0	*	*	*	*	*	*	7	1·17	+ 0·20	1·8	- 2·7	15	-22	Valencia.
a Roche's Point	56	24th	39	29th	52·3	44·0	48·0	+ 2·7	42	0	*	*	*	*	*	*	5	0·52	- 0·12	3·2	—	26	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's .	56	26th	44	29, 30	54·0	46·7	50·2	+ 3·5	57	0	*	*	*	*	*	*	3	0·07	- 0·41	4·6	- 0·4	37	- 3	Scilly.
a Jersey, St. Aubins ..	61	26th	40	26th	55·4	44·4	49·7	+ 3·6	54	0	*	*	*	*	*	*	2	0·06	- 0·44	5·0	- 0·3	40	- 3	St. Heliers.
a Guernsey (Villa Carey)	62	26th	43	29th	55·1	46·1	50·5	+ 4·3	60	0	0	35	49·5	+3·2	48·2	+2·0	2	0·06	- 0·49	5·4	+ 0·1	44	+ 1	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·6 hrs. 45 °/₀; Newcastle (Pendower), hrs. °/₀; Ramsgate, 6·1 hrs. 49 °/₀; Rhyl, 4·3 hrs. 34 °/₀; Salcombe, 4·4 hrs. 36 °/₀; Tenby, 4·3 hrs. (- 0·8) 35 °/₀ (- 6 °/₀); Torquay, 4·7 hrs. (- 0·3) 38 °/₀ (- 3 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, March 30th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	—			°	°	°	
SCOTLAND, N. ..	Lerwick					SCOTLAND, W. ..	Lamlash	47	43	44·7	+0·8
	Kirkwall	46	44	45·9	+3·4		Ballantrae .. .	46	42	44·5	+0·5
	Wick	46	45	45·5	+2·2	ENGLAND, N.W. ..	Port Erin	47	45	45·9	+1·6
SCOTLAND, E. ..	Cromarty	44	42	43·1	+1·9		Newquay	49	49	49·0	+1·6
	Pennan Bay	45	43	44·0	+2·1	ENGLAND, S.W. ..	Scilly	52	48	50·7	—
	Aberdeen, Cove Bay	43	43	43·0	+0·9		Plymouth‡	50	48	49·5	+2·5
ENGLAND, N.E. ..	Burnmouth, Berwick	42	41	41·4	+0·8		Salcombe	51	49	50·3	+4·3
	Scarborough . ..	49	41	44·3	+2·6	IRELAND, N.W. ..	Sheephaven	48	46	46·0	+0·3
ENGLAND, E. ..	Shipwash Lightship	49	45	47·4	+6·0		Teelin	47	45	45·8	-0·1
ENGLAND, S.E. ..	Margate‡	51	46	48·0	+4·8	IRELAND, S.W. ..	Cleggan	46	44	45·4	-0·4
	Eastbourne‡	47	46	46·7	+3·2	IRELAND, E.	Seafield	50	45	47·9	+0·2
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTEENTH WEEK—March 24th to March 30th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.			%	%
0. SCOTLAND, NORTH ...	55	32	47·8	37·2	42·4	+ 2·0	23	+ 6	13	— 14	7	+ 3	1·95	+1·04	4·1	+0·1	32	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	60	28	50·8	36·8	43·6	+ 2·9	33	+ 11	15	— 14	6	+ 2	0·72	+0·23	5·7	+1·4	45	+11
2. ENGLAND, N.E.	61	32	54·0	41·4	47·6	+ 5·8	42	+ 19	2	— 21	4	+ 1	0·18	−0·20	5·1	+0·4	41	+ 3
3. ENGLAND, EAST ...	63	34	56·5	43·6	49·9	+ 7·1	55	+ 25	0	— 24	2	— 1	0·04	−0·32	5·2	+0·5	42	+ 4
4. MIDLAND COUNTIES ...	63	33	54·0	42·4	48·5	+ 5·8	46	+ 14	0	— 25	4	0	0·15	−0·24	4·9	+0·6	39	+ 5
5. ENGLAND, S.E.	63	32	55·4	44·5	49·8	+ 5·8	55	+ 23	0	— 16	1	— 2	0·02	−0·34	5·6	+0·8	45	+ 7
Western.																		
6. SCOTLAND, WEST ...	55	34	49·8	40·7	45·1	+ 3·0	27	+ 5	4	— 17	7	+ 3	1·75	+0·99	3·6	−0·9	29	— 7
7. ENGLAND, N.W.	59	35	51·6	42·4	46·9	+ 4·3	34	+ 10	0	— 19	6	+ 2	1·13	+0·57	3·6	−0·5	28	— 4
8. ENGLAND, S.W.	62	35	53·2	44·6	48·8	+ 4·6	48	+ 16	0	— 14	4	0	0·31	−0·28	3·8	−1·0	31	— 8
9. IRELAND, NORTH ...	59	34	51·9	41·1	46·3	+ 3·3	34	+ 8	3	— 15	6	+ 1	1·19	+0·54	2·5	−1·7	20	−13
10. IRELAND, SOUTH ...	62	35	53·8	43·9	48·7	+ 4·1	47	+ 14	0	— 14	6	+ 2	0·66	−0·02	2·9	−1·9	23	−15
11. ENGLISH CHANNEL ...	62	40	54·8	45·7	50·1	+ 3·5	57	+ 20	0	— 4	2	— 2	0·06	−0·41	5·0	−0·6	40	— 5

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 4 Weeks, March 3rd to March 30th, 1912.

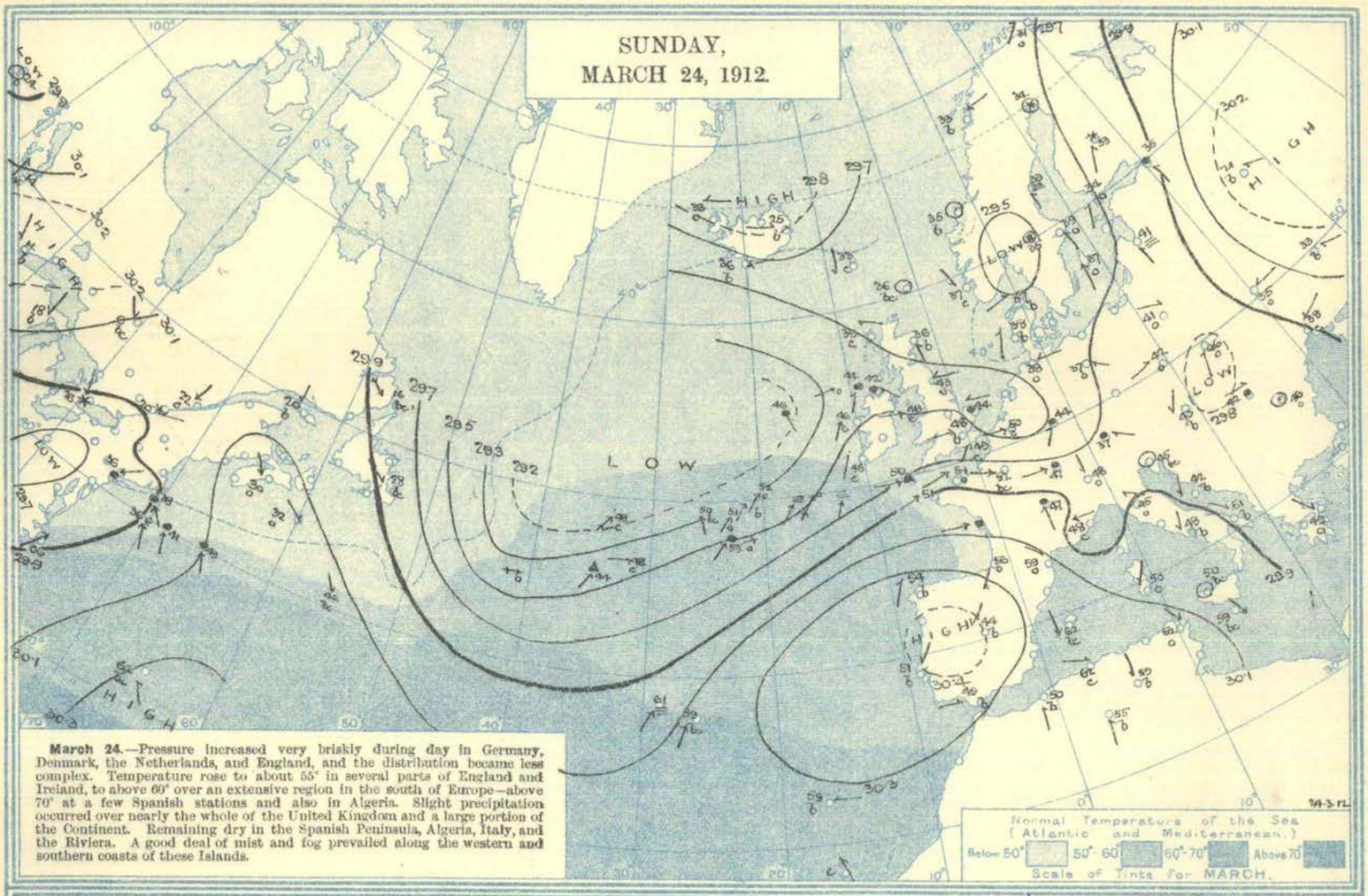
0. SCOTLAND, NORTH ...	55	26	*	*	*	*	71	+ 24	71	— 50	23	+ 3	4·55	+0·52	3·4	+0·2	29	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	60	21	*	*	*	*	89	+ 22	89	— 43	21	+ 5	2·32	+0·24	3·5	−0·1	30	— 1
2. ENGLAND, N.E	61	27	*	*	*	*	110	+ 32	53	— 53	18	+ 4	2·03	+0·44	3·4	−0·7	29	— 6
3. ENGLAND, EAST ...	63	29	*	*	*	*	141	+ 42	31	— 82	19	+ 6	2·47	+1·07	3·2	−0·9	27	— 8
4. MIDLAND COUNTIES ...	63	28	*	*	*	*	122	+ 20	50	— 64	19	+ 6	3·29	+1·74	3·0	−0·7	25	— 6
5. ENGLAND, S.E.	63	29	*	*	*	*	142	+ 39	24	— 60	19	+ 7	3·29	+1·68	3·7	−0·4	31	— 3
Western.																		
6. SCOTLAND, WEST ...	59	27	*	*	*	*	87	+ 18	50	— 47	23	+ 6	4·41	+1·24	3·2	−0·5	28	— 4
7. ENGLAND, N.W.	59	27	*	*	*	*	102	+ 26	40	— 47	21	+ 6	3·79	+1·63	3·0	−0·6	25	— 5
8. ENGLAND, S.W.	62	30	*	*	*	*	131	+ 28	21	— 49	24	+ 9	5·38	+2·97	3·2	−0·9	27	— 8
9. IRELAND, NORTH ...	59	31	*	*	*	*	106	+ 19	50	— 32	24	+ 6	3·64	+1·20	3·3	−0·2	28	— 2
10. IRELAND, SOUTH ...	63	29	*	*	*	*	146	+ 33	32	— 32	26	+10	4·02	+1·36	3·9	−0·1	33	— 1
11. ENGLISH CHANNEL ...	62	35	*	*	*	*	103	+ 40	3	— 23	22	+ 6	5·11	+3·12	3·6	−1·4	31	−11

THE YEAR.—Aggregates, &c., for the Period of 13 Weeks, December 31st, 1911, to March 30th, 1912.

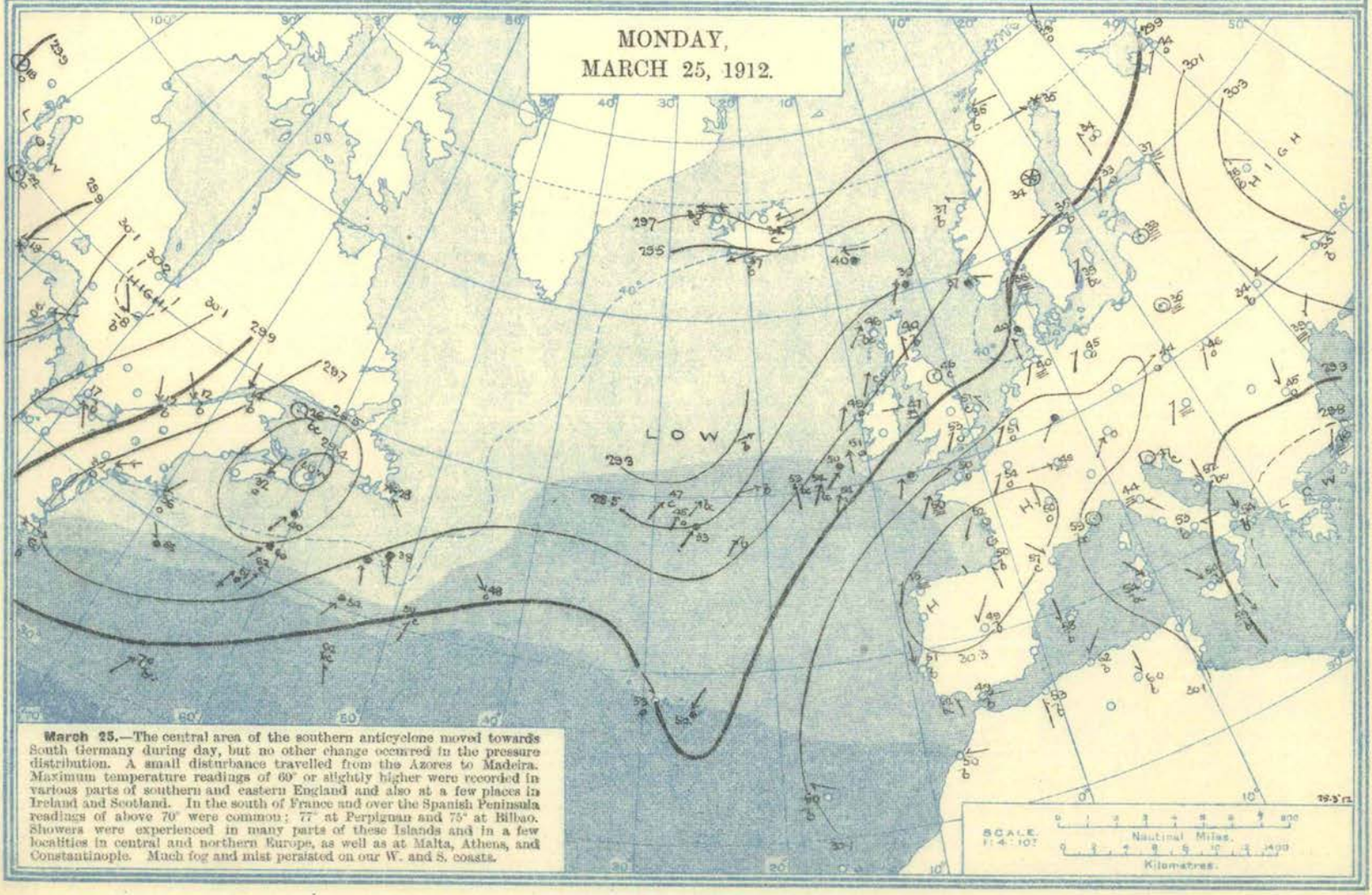
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	145	+ 38	367	— 84	67	+ 1	12·12	−2·87	2·1	+0·2	23	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	60	−5	*	*	*	*	164	+ 29	432	— 77	64	+13	7·71	+0·64	2·1	−0·4	23	— 4
2. ENGLAND, N.E.	61	10	*	*	*	*	211	+ 53	324	— 83	59	+12	6·53	+1·55	2·0	−0·5	21	— 6
3. ENGLAND, EAST ...	63	14	*	*	*	*	273	+ 84	238	−214	58	+11	6·76	+1·99	2·0	−0·8	20	— 9
4. MIDLAND COUNTIES ...	63	9	*	*	*	*	249	+ 43	322	−128	57	+11	9·01	+3·28	1·8	−0·6	19	— 6
5. ENGLAND, S.E.	63	13	*	*	*	*	297	+ 76	194	−149	58	+14	9·11	+3·05	2·1	−0·6	21	— 7
Western.																		
6. SCOTLAND, WEST ...	59	12	*	*	*	*	178	+ 20	303	— 56	62	+ 5	13·16	+1·14	2·0	−0·3	21	— 3
7. ENGLAND, N.W.	60	7	*	*	*	*	226	+ 56	271	— 67	60	+ 9	9·63§	+1·80	2·1	−0·2	21	— 3
8. ENGLAND, S.W.	62	9	*	*	*	*	309	+ 55	180	— 89	70	+19	13·56	+4·15	2·2	−0·6	22	— 6
9. IRELAND, NORTH ...	60	15	*	*	*	*	265	+ 53	221	— 78	58	— 2	10·33	+1·36	2·2	−0·2	23	— 1
10. IRELAND, SOUTH ...	63	13	*	*	*	*	355	+ 56	162	— 67	72	+18	12·87	+2·66	2·5	−0·2	26	— 2
11. ENGLISH CHANNEL ...	62	27	*	*	*	*	484	+142	44	— 61	61	+ 4	11·44	+3·54	2·6	−0·8	26	— 7

NOTES ON TABLE IV.

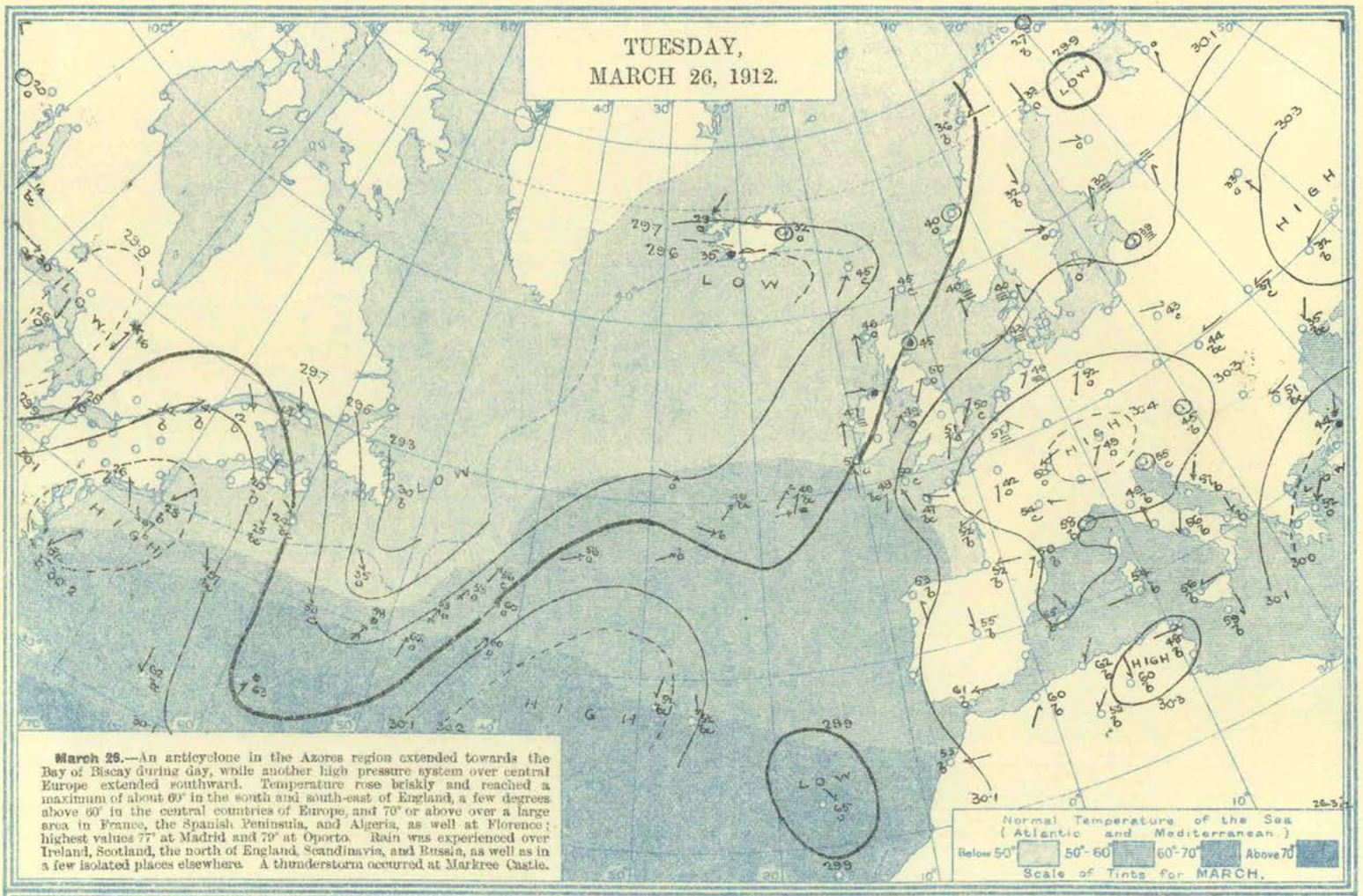
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.
§ The corresponding value for week ended February 17th altered owing to further information.



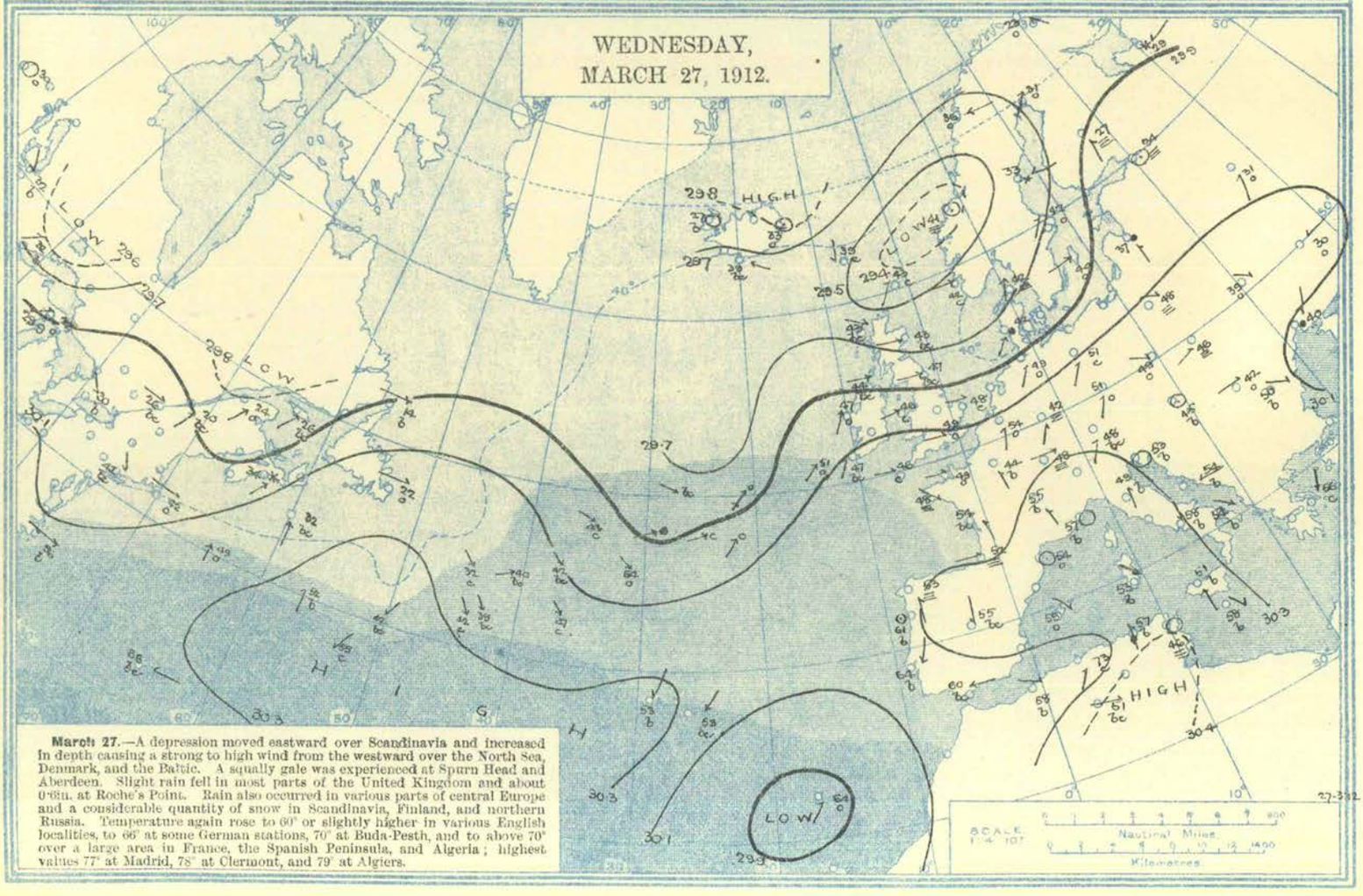
March 24.—Pressure increased very briskly during day in Germany, Denmark, the Netherlands, and England, and the distribution became less complex. Temperature rose to about 55° in several parts of England and Ireland, to above 60° over an extensive region in the south of Europe—above 70° at a few Spanish stations and also in Algeria. Slight precipitation occurred over nearly the whole of the United Kingdom and a large portion of the Continent. Remaining dry in the Spanish Peninsula, Algeria, Italy, and the Riviera. A good deal of mist and fog prevailed along the western and southern coasts of these Islands.



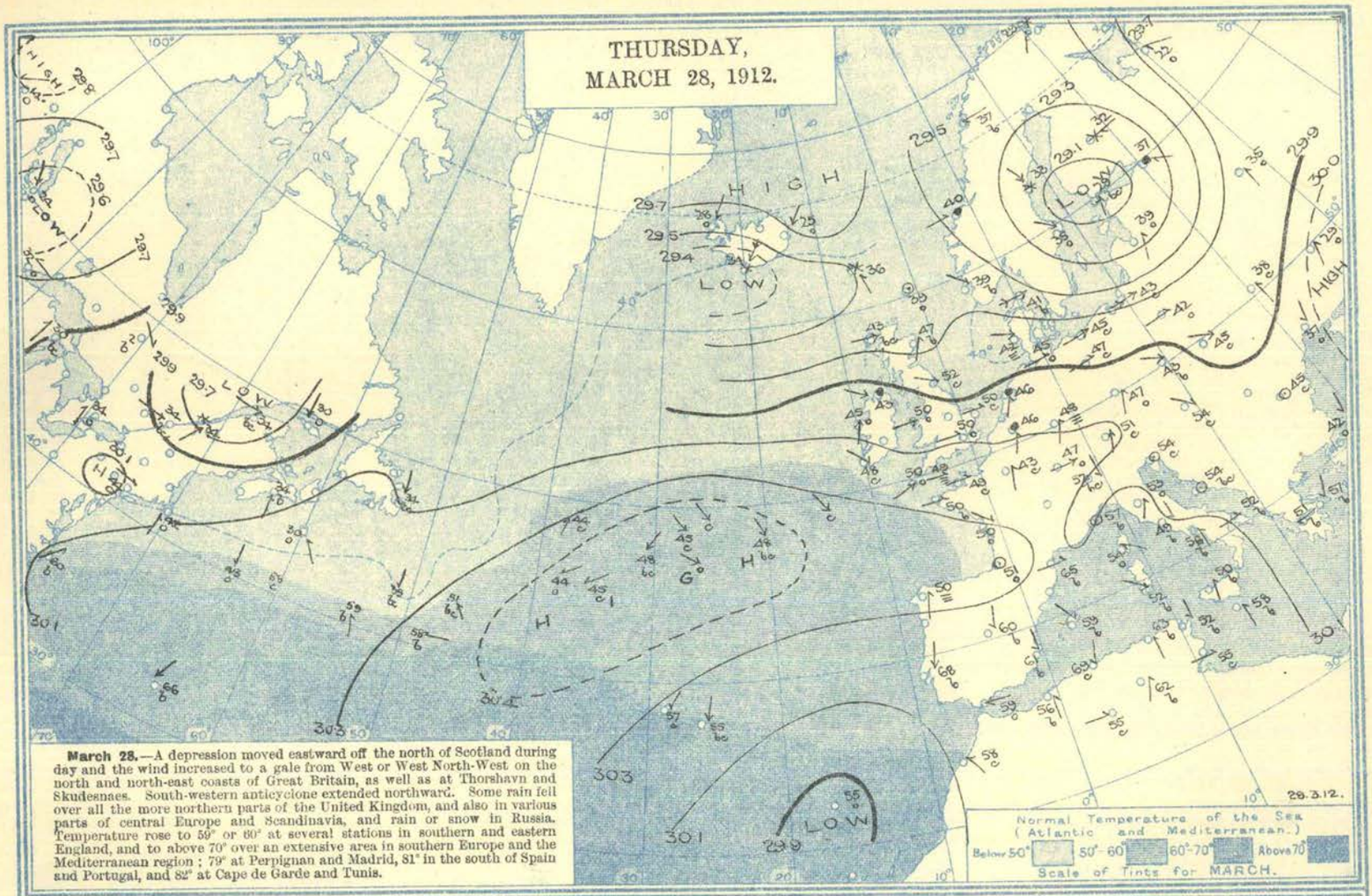
March 25.—The central area of the southern anticyclone moved towards South Germany during day, but no other change occurred in the pressure distribution. A small disturbance travelled from the Azores to Madeira. Maximum temperature readings of 60° or slightly higher were recorded in various parts of southern and eastern England and also at a few places in Ireland and Scotland. In the south of France and over the Spanish Peninsula readings of above 70° were common; 77° at Perpignan and 75° at Bilbao. Showers were experienced in many parts of these Islands and in a few localities in central and northern Europe, as well as at Malta, Athens, and Constantinople. Much fog and mist persisted on our W. and S. coasts.



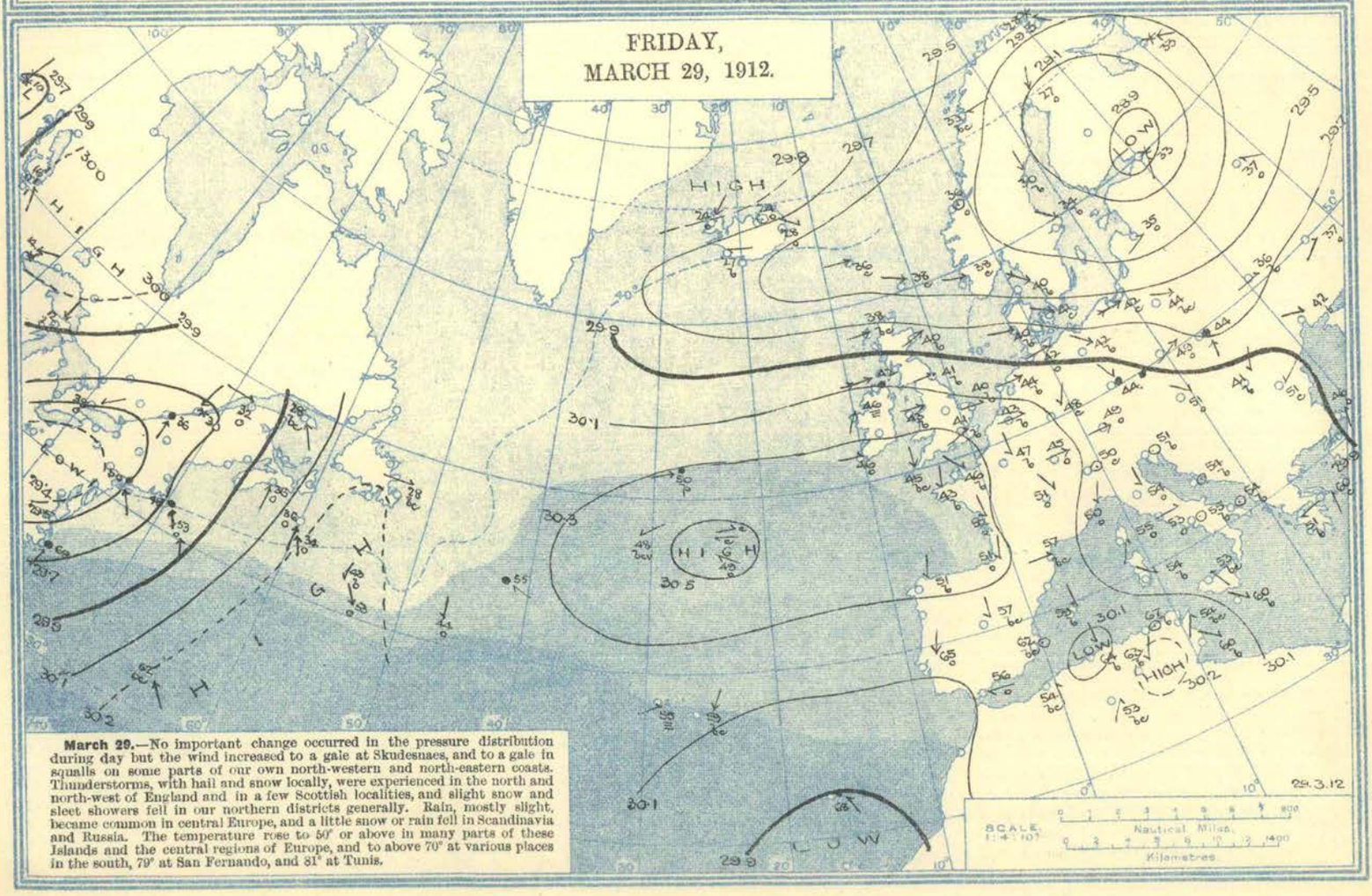
March 26.—An anticyclone in the Azores region extended towards the Bay of Biscay during day, while another high pressure system over central Europe extended southward. Temperature rose briskly and reached a maximum of about 60° in the south and south-east of England, a few degrees above 60° in the central countries of Europe, and 70° or above over a large area in France, the Spanish Peninsula, and Algeria, as well at Florence; highest values 77° at Madrid and 79° at Oporto. Rain was experienced over Ireland, Scotland, the north of England, Scandinavia, and Russia, as well as in a few isolated places elsewhere. A thunderstorm occurred at Markree Castle.



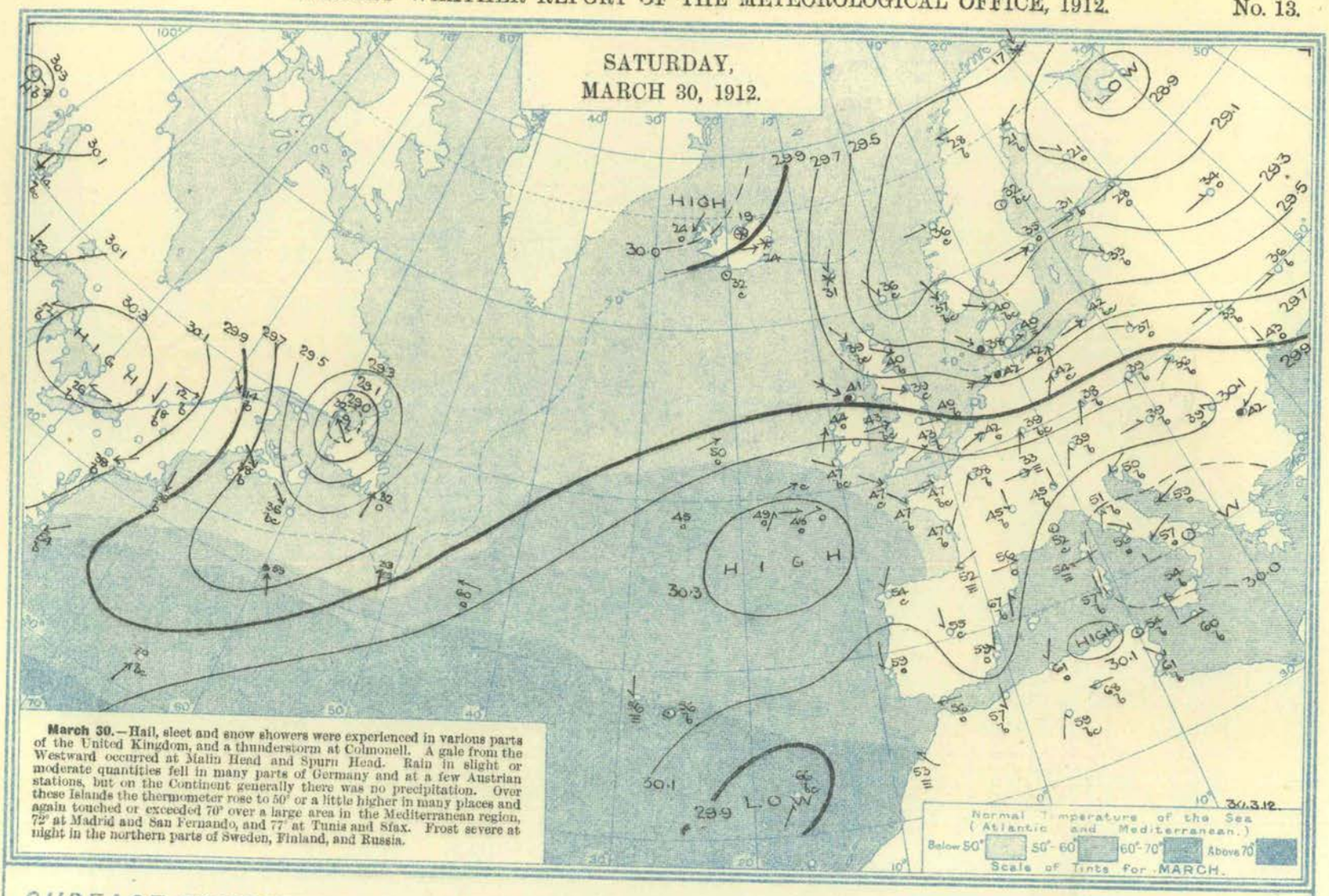
March 27.—A depression moved eastward over Scandinavia and increased in depth causing a strong to high wind from the westward over the North Sea, Denmark, and the Baltic. A squally gale was experienced at Spurn Head and Aberdeen. Slight rain fell in most parts of the United Kingdom and about 0·6in. at Roche's Point. Rain also occurred in various parts of central Europe and a considerable quantity of snow in Scandinavia, Finland, and northern Russia. Temperature again rose to 60° or slightly higher in various English localities, to 66° at some German stations, 70° at Buda-Pesth, and to above 70° over a large area in France, the Spanish Peninsula, and Algeria; highest values 77° at Madrid, 78° at Clermont, and 79° at Algiers.



March 28.—A depression moved eastward off the north of Scotland during day and the wind increased to a gale from West or West North-West on the north and north-east coasts of Great Britain, as well as at Thorshavn and Skudesnaes. South-western anticyclone extended northward. Some rain fell over all the more northern parts of the United Kingdom, and also in various parts of central Europe and Scandinavia, and rain or snow in Russia. Temperature rose to 59° or 60° at several stations in southern and eastern England, and to above 70° over an extensive area in southern Europe and the Mediterranean region; 79° at Perpignan and Madrid, 81° in the south of Spain and Portugal, and 82° at Cape de Garde and Tunis.

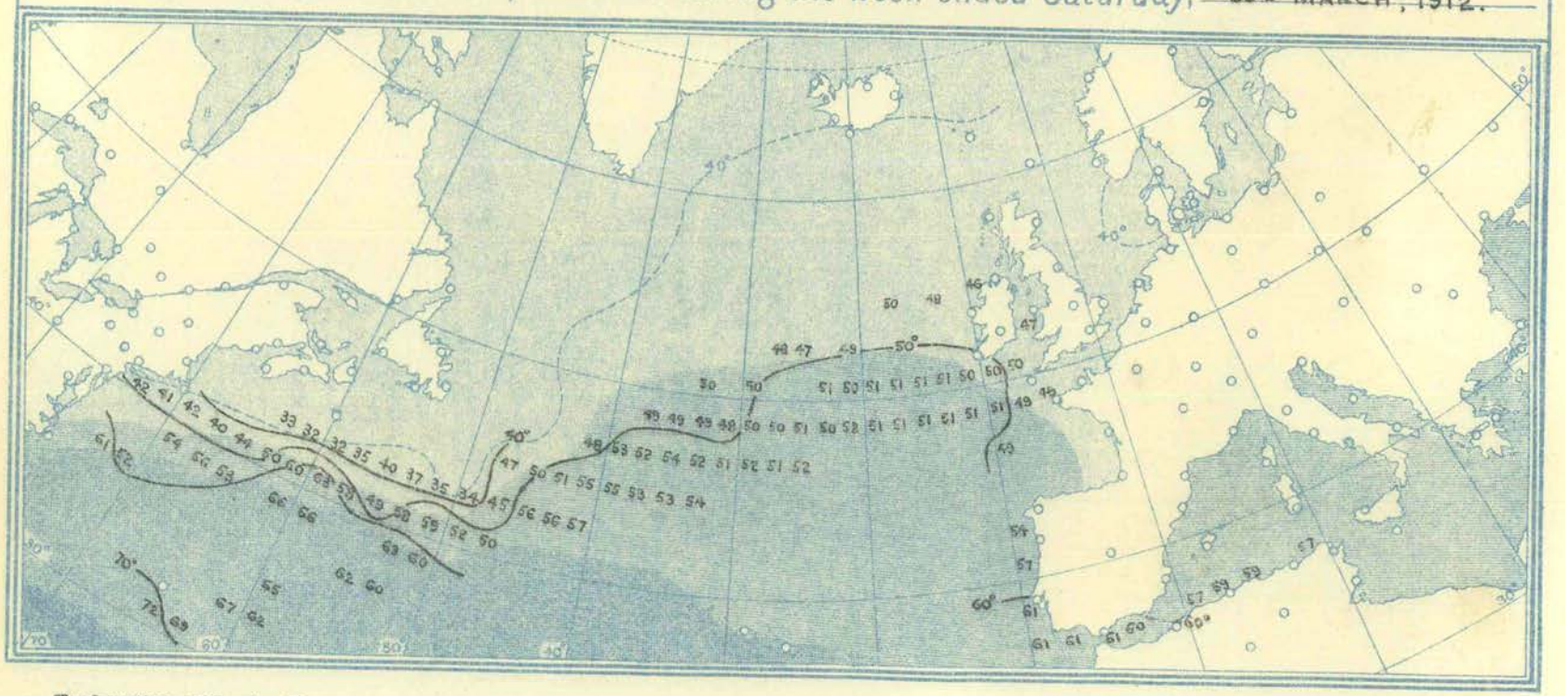


March 29.—No important change occurred in the pressure distribution during day but the wind increased to a gale at Skudesnaes, and to a gale in squalls on some parts of our own north-western and north-eastern coasts. Thunderstorms, with hail and snow locally, were experienced in the north and north-west of England and in a few Scottish localities, and slight snow and sleet showers fell in our northern districts generally. Rain, mostly slight, became common in central Europe, and a little snow or rain fell in Scandinavia and Russia. The temperature rose to 50° or above in many parts of these Islands and the central regions of Europe, and to above 70° at various places in the south, 79° at San Fernando, and 81° at Tunis.



March 30.—Hail, sleet and snow showers were experienced in various parts of the United Kingdom, and a thunderstorm at Colmonell. A gale from the Westward occurred at Malin Head and Spurn Head. Rain in slight or moderate quantities fell in many parts of Germany and at a few Austrian stations, but on the Continent generally there was no precipitation. Over these Islands the thermometer rose to 50° or a little higher in many places and again touched or exceeded 70° over a large area in the Mediterranean region, 72° at Madrid and San Fernando, and 77° at Tunis and Sfax. Frost severe at night in the northern parts of Sweden, Finland, and Russia.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 30TH MARCH, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* | No. 14. | FOURTEENTH WEEK, SUNDAY, MARCH 31ST, TO SATURDAY, APRIL 6TH, 1912. | *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. Over the Kingdom generally the conditions were fair to fine, but in the north and north-west rain was again of frequent occurrence. Early in the week snow and sleet showers were experienced over a considerable portion of the Kingdom.

Temperature was above the average in all districts, the excess amounting to more than 3°·5 in the east and north-east of Great Britain. The highest of the maxima were recorded on rather irregular dates, but mostly on the 5th or 6th April. The values ranged from 69° in England E. to 57° in the English Channel and Scotland W., and to 56° in Scotland N. The lowest of the minima, which occurred early in the week, mostly on the 1st or 2nd, ranged from 27° in Scotland E. and England S.W. to 31° in Scotland W., and to 39° in the English Channel. The lowest grass readings reported were 19° at Worksop, 20° at Marlborough, Llangammarch Wells, Burnley and Newton Rigg, and 21° at Hampstead, Kew and Wisley. Both at 1 foot and 4 feet below the surface the temperature of the earth was again above the normal, but the excess was less marked than in previous weeks.

Mean Temperature of the Sea. The water was warmer than during the corresponding week of last year, and its temperature was above the average at all stations except Sheephaven. The mean values ranged from 52° at Scilly to between 41° and 44° on the north-east coast of Britain.

Rainfall was less than the average in England and Ireland, but just equal to it in Scotland E. and above it in Scotland N. and W. At Glencarron as much as 5·76 in. fell in three days,—1·18 in. on the 3rd, 2·68 in. on the 4th, and 1·90 on the 5th. At Fort William on the 4th the fall equalled 2·21 in., at Kilmarnock 1·61 in. and at Rothesay 1·12 in.

Bright Sunshine did not, as a whole, differ much from the average, but in Ireland, England S.W. and the English Channel there was a large deficiency. The daily mean was nearly 6 hours in England S.E. and E., and the percentage of the possible duration in those districts was 46 and 45 respectively. Elsewhere the figure was much lower, falling to below 30 per cent. of the possible in Ireland, England S.W. and Scotland N.

Barometer and Wind. After a depression had travelled over these Islands on Sunday an anticyclonic system of increasing size and intensity extended towards this country from the Azores region, and the wind blew a fresh to strong breeze from the Northward on our coasts generally, reaching the force of a gale in a few exposed places. During the remainder of the week the anticyclone, which increased in intensity and became centred over the Bay of Biscay, continued to dominate the weather in the south, but depressions moving eastward spread gradually over our more northern districts, and the Westerly current of wind which had taken the place of the Northerly current became strong on the north-west, north and north-east coasts, and at times attained the force of a gale.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 55.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Moderate
	Rainfall ...	Very heavy	Moderate	Light	Moderate	Light	Moderate	Heavy	Moderate	Moderate	Light	Light	Moderate
	Sunshine ...	Moderate	Moderate	Scanty	Moderate	Moderate	Abundant	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 5 weeks from March 3rd, 1912.	Warmth ...	3 * 0	4 * 0	4 * 0	4 * 0	4 * 0	3 * 0	3 * 0	4 * 0	3 * 0	4 * 0	3 * 0	3 * 0
	Rainfall ...	2 * 1	2 * 0	3 * 2	2 * 1	3 * 2	2 * 1	2 * 0	3 * 0	3 * 0	2 * 1	2 * 1	3 * 1
	Sunshine ...	1 * 0	1 * 1	0 * 3	0 * 2	0 * 2	3 * 2	1 * 1	1 * 2	1 * 3	1 * 3	1 * 2	0 * 3

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(23805—24.) Wt. 173—814. 450. 4/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands.. *p* Baltasound .. S	49	4th	30	31st	44·3	34·4	39·1	—	6	26	•	•	40·1	•	•	•	7	1·75	—	3·8	—	29	—	*Baltasound.*
a Lerwick	48	4th	30	31st	44·4	35·0	39·5	− 0·5	7	25	•	•	•	•	•	•	7	2·03	—	4·4	+ 0·1	34	+ 1	Deerness.
a Stornoway	51	3, 4, 5	33	31, 1, 2	48·1	39·3	43·5	+ 1·9	22	8	•	•	•	•	•	•	7	1·14	+ 0·37	3·8	− 0·7	29	− 6	Stornoway.
a Castlebay, Barra Isd.	50	4, 5, 6	34	1st	48·1	41·9	44·9	+ 0·5	21	0	•	•	•	•	•	•	6	0·39	—	4·0	—	31	—	*Castlebay.*
b, Mainland. *a* Wick	54	4th	32	2nd	48·0	37·6	42·6	+ 1·1	23	12	•	•	•	•	•	•	7	1·07	+ 0·60	•	•	•	•	
p Strathpeffer ..	56	4th	31	2nd	50·6	39·3	44·7	+ 3·0	30	8	•	•	•	•	•	•	7	1·09	+ 0·62	2·5	− 1·5	19	− 11	Strathpeffer.
p Glencarron ..	50	5th	32	31, 1	46·8	38·5	42·5	+ 2·0	18	10	•	•	•	•	•	•	7	6·07	+ 4·64	•	•	•	•	
p Fort Augustus..	54	6th	31	2nd	49·9	39·9	44·7	+ 3·0	28	6	•	•	•	•	•	•	6	2·23	+ 1·60	3·1	− 0·2	24	− 1	Fort Augustus.
p Fort William ..	52	2, 5, 6	32	1, 2	49·0	40·0	44·3	+ 1·8	25	6	•	•	•	•	•	•	6	4·33	+ 3·19	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	60	4th	32	2nd	52·0	41·0	46·2	+ 3·8	34	3	4	25	42·7	+1·7	42·0	+1·7	—	—	—	4·7	—	36	—	Crathes S.
a Nairn	57	4th	31	2nd	51·1	39·3	44·9	+ 3·1	32	8	•	•	•	•	•	•	6	0·78	+ 0·45	4·2	—	32	—	Nairn.
a Aberdeen ..	64	4th	33	2nd	54·1	40·1	46·8	+ 4·7	42	5	•	•	•	•	42·6	+1·6	4	0·11	− 0·36	5·7	+ 1·1	44	+ 8	Aberdeen.
a Balmoral ..	61	5th	28	2nd	52·6	36·7	44·3	+ 5·9	38	15	4	25	•	•	•	•	5	0·46	− 0·09	•	•	•	•	Balmoral.
p Crieff	60	5th	31	1st	53·3	37·9	45·2	+ 2·5	40	11	•	•	•	•	•	•	3	0·33	− 0·25	5·3	—	41	—	Balruddery.
a Leith	57	3, 6	35	1, 2	52·7	41·1	46·6	+ 3·3	36	3	•	•	•	•	•	•	3	0·34	+ 0·04	•	•	•	•	
p West Linton .. S.	55	3rd	27	2nd	49·6	35·6	42·3	+ 2·4	29	18	•	•	•	•	•	•	4	0·86	—	3·3	—	25	—	*West Linton.*
p Marchmont ..	56	3, 6	28	2nd	50·9	37·7	44·0	+ 3·0	32	12	3	25	41·7	+0·6	•	•	1	0·10	− 0·42	3·3	− 0·9	25	− 7	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	58	6th	30	2nd	52·9	39·0	45·6	+ 3·7	38	8	3	24	42·4	+1·4	43·0	+1·8	2	0·34	− 0·13	3·5	—	27	—	Cockle Park.
a Shields	59	6th	30	2nd	53·9	37·6	45·4	+ 2·8	42	12	•	•	•	•	•	•	4	0·28	− 0·04	•	•	•	•	
p Durham	58	6th	29	2nd	52·4	38·1	44·9	+ 3·0	37	11	2	24	•	•	•	•	2	0·22	− 0·13	3·7	− 0·4	29	− 3	Durham.
a, North .. *p* Rounton	60	6th	28	2nd	52·8	38·1	45·1	+ 3·3	38	11	3	25	44·1	•	•	•	2	0·18	− 0·26	•	•	•	•	Rounton.
a West Witton	57	6th	31	2nd	51·1	39·6	45·1	—	32	7	3	25	42·7	•	41·8	•	2	0·17	—	•	•	•	•	*West Witton.*
p Scarborough	66	6th	33	3rd	55·0	41·6	48·0	+ 5·0	44	1	•	•	•	•	•	•	2	0·12	− 0·28	4·1	—	32	—	Scarborough.
p York	59	6th	30	2nd	53·7	39·9	46·5	+ 2·8	40	6	•	•	44·2	+1·5	44·3	+2·1	1	0·08	− 0·31	2·5	− 1·5	19	−12	York.
b, South .. *a* Spurn Head	60	4th	34	2nd	52·4	39·7	45·8	+ 2·6	36	6	2	24	44·6	+2·1	44·1	+2·1	2	0·31	+ 0·04	3·0	—	23	—	*Hull.*
a Lincoln	63	4th	30	2nd	55·7	39·7	47·3	+ 3·4	46	6	•	•	44·3	+1·6	44·4	+2·1	1	0·03	− 0·30	•	•	•	•	Lincoln.
a Fulbeck	62	4th	29	2nd	54·7	39·4	46·7	+ 3·0	44	7	4	22	46·5	+2·7	45·3	+2·0	1	0·08	− 0·28	5·4	—	42	—	Rauceby.
											•	•	•	•	•	•	—	—	—	5·5	—	42	—	Skegness.
3. ENGLAND, E.											0	31	46·1	+1·8	46·1	+2·6	—	—	—	6·3	—	49	—	*Lowestoft.*
p Cromer	64	6th	37	2, 3	55·4	39·6	47·1	+ 4·7	46	7	•	•	•	•	•	•	4	0·24	—	5·5	—	42	—	Cromer.
p Hillington	64	6th	30	2, 3	57·4	38·6	47·6	+ 3·9	53	10	2	22	•	•	•	•	2	0·07	− 0·32	5·0	+ 0·5	39	+ 4	Hillington.
a, North .. *a* Yarmouth	63	6th	34	2, 3	54·6	39·6	46·7	+ 4·1	43	7	•	•	45·9	+1·7	46·9	+2·2	5	0·21	− 0·13	6·0	—	46	—	*Yarmouth.*
a Norwich	67	6th	33	2nd	57·1	40·4	48·4	+ 5·3	52	4	2	27	45·7	•	•	•	4	0·19	—	6·3	—	49	—	*Norwich.*
p Geldeston	69	6th	33	2nd	57·9	40·3	48·7	+ 5·3	54	5	•	•	•	•	•	•	4	0·29	− 0·07	5·9	+ 1·0	45	+ 8	Geldeston.
p Cambridge	68	6th	30	2, 3	57·7	38·9	47·9	+ 3·7	54	9	4	23	46·7	+2·1	47·0	+2·6	2	0·11	− 0·21	6·3	+ 1·5	49	+12	Cambridge.
a Felixstowe	65	6th	31	2nd	55·0	40·0	47·1	+ 3·5	44	6	•	•	•	•	•	•	3	0·07	—	6·1	—	47	—	*Felixstowe.*
a Clacton-on-Sea ..	69	6th	32	2nd	55·3	39·6	47·1	+ 3·8	46	7	1	27	47·0	+2·7	48·0	+2·9	2	0·04	—	6·1	—	47	—	Clacton.
b, South .. *a* Rothamsted	66	6th	31	2nd	56·1	38·9	47·1	+ 3·7	49	9	•	•	•	•	•	•	3	0·13	− 0·25	6·4	+ 1·9	50	+15	Rothamsted.
a Shoeburyness ..	67	6th	32	2nd	55·6	40·7	47·8	+ 2·8	45	4	1	27	47·9	+3·5	•	•	1	0·02	− 0·24	5·4	—	42	—	*Southend.*
p Tottenham	66	6th	34	2nd	55·1	41·7	48·1	+ 3·6	44	1	0	31	•	•	47·3	+3·2	1	0·25	—	5·5	—	43	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	56	6th	30	2nd	50·7	39·7	44·9	+ 2·7	30	6	3	23	43·6	+2·4	43·0	+2·4	—	—	—	3·7	—	29	—	*Huddersfield.*
a Bawtry	62	4th	30	1st	55·3	38·0	46·2	+ 2·5	46	11	2	26	42·5	+1·1	43·0	+1·5	3	0·14	− 0·32	3·1	—	24	—	Harrogate.
p Buxton	57	4th	29	2, 3	50·3	37·7	43·7	+ 3·3	30	12	3	19	45·3	•	45·0	•	1	0·12	− 0·21	3·5	− 0·5	27	− 4	Worksop.
a East .. *a* Nottingham	62	4, 5	30	2nd	56·1	38·6	46·9	+ 3·3	49	10	3	23	43·5	+2·3	43·5	+2·5	3	0·67	− 0·07	3·9	—	30	—	*Buxton.*
p Birmingham, Edgbsn.	63	5th	33	1, 2	55·1	40·3	47·3	+ 3·9	44	5	2	22	45·1	+2·8	44·0	+2·6	1	0·17	− 0·17	5·0	—	39	—	Nottingham.
a Raunds	68	6th	29	2nd	59·0	38·4	48·2	+ 4·8	58	10	3	24	44·1	+2·1	45·0	+1·7	2	0·07	− 0·35	6·2	—	48	—	Birmingham.
a Oxford	65	6th	32	2nd	55·9	40·3	47·7	+ 3·2	47	5	2	22	44·9	—	45·8	—	1	0·02	—	•	•	•	•	Raunds.
											2	25	•	•	•	•	1	0·02	− 0·30	6·0	+ 1·5	47	+12	Oxford.
											3	25	44·2	+2·6	43·6	+2·3	—	—	—	3·8	—	29	—	Sheffield.
											•	•	•	•	•	•	—	—	—	•	•	•	•	Cheadle.
a Cheadle											•	•	•	•	•	•	—	—	—	•	•	•	•	Shrewsbury.
p Shrewsbury	62	3rd	31	3rd	56·0	40·4	47·8	+ 3·1	47	4	1	28	•	•	•	•	1	0·24	—	•	•	•	•	Hereford.
b, West .. *a* Hereford	66	6th	29	2nd	58·3	39·2	48·3	+ 3·8	56	8	1	22	•	•	•	•	1	0·24	− 0·15	•	•	•	•	Cirencester.
a Cirencester	62	6th	30	2nd	55·6	38·6	46·7	+ 3·6	47	10	1	27	45·5	•	45·5	•	2	0·15	− 0·26	5·6	+ 1·0	43	+ 8	Bath.
a Bath	58	3rd	31	2nd	54·0	40·1	46·7	+ 2·0	41	5	•	•	•	•	•	•	2	0·16	− 0·31	4·6	—	36	—	
5. ENGLAND, S.E.											1	28	48·6	+5·3	48·3	+3·6	—	—	—	•	•	•	•	Canterbury.
p Kew	64	6th	33	2nd	56·0	41·3	48·3	+ 3·4	47	2	3	21	47·0	+3·6	47·6	+3·4	1	0·36	0·00	6·4	+ 2·1	50	+16	Kew.
a Marlborough	58	3, 6	28	2nd	53·0	39·1	45·7	+ 2·8	38	8	1	20	•	•	•	•	2	0·25	− 0·23	4·2	0·0	33	0	Mariborough.
a Margate	65	6th	38	2nd	54·6	42·4	48·2	+ 3·9	43	0	—	—	46·4	+3·0	46·3	+2·9	3	0·04	− 0·27	7·1	+ 2·4	55	+19	Margate.
a Wisley, Surrey ..	64	6th	31	2nd	55·7	40·3	47·6	+ 2·4	46	5	4	21	46·3	+2·8	46·9	+2·9	2	0·20	—	6·2	—	48	—	Wisley
a Swarraton	61	5, 6	31	2nd	54·6	39·4	46·6	+ 2·9	43	7	1	30	47·9	+3·4	48·0	+3·3	2	0·30	− 0·15	5·9	—	46	—	Worthing.
a Tunbridge Wells ..	66	6th	29	2nd	55·1	38·4	46·4	+ 2·3	46	10	2	23	48·3	+3·1	•	•	3	0·04	− 0·39	6·7	+ 1·9	52	+15	Tunbridge Wells.
a Dungeness	57	6th	32	2nd	52·7	41·3	46·7	+ 2·6	36	2	•	•	•	•	•	•	0	0·00	− 0·35	5·8	—	45	—	Littlestone.
p Hastings..	66	6th	34	2nd	53·4	42·0	47·4	+ 2·4	38	0	1	29	47·7	•	47·8	•	1	0·04	− 0·38	5·5	+ 0·3	43	+ 2	*Hastings.*
p Southampton	65	5, 6	32	2nd	57·1	41·4	48·9	+ 1·4	51	2	2	25	•	•	•	•	1	0·38	− 0·06	5·7	+ 0·7	44	+ 6	Southampton.
a Ventnor	58	6th	35	2nd	53·6	43·0	48·1	+ 2·0	43	0	2	25	•	•	•	•	1	0·17	− 0·23	5·7	+ 0·2	44	+ 2	Ventnor.
											1	30	49·1	+3·5	48·7	+2·5	—	—	—	5·7	—	44	—	*Portsmouth.*
											•	•	48·4	•	48·7	•	—	—	—	5·7	+ 0·5	44	+ 4	Eastbourne.
											•	•	46·7	•	47·7	•	—	—	—	4·6	—	36	—	*Bournemouth.*
LONDON.											1	30	•	•	47·4	•	—	—	—	5·2	+ 0·1	40	0	*Brighton.*
a Westminster	66	6th	33	2nd	56·9	41·6	48·9	+ 4·0	50	1	2	29	•	•	•	•	1	0·27	− 0·08	5·0	+ 1·9	39	+14	*Westminster.*
a Greenwich	68	6th	33	2nd	57·6	40·3	48·5	+ 3·3	53	5	3	23	•	•	•	•	1	0·07	− 0·28	5·8	+ 1·6	45	+13	*Greenwich.*
a Hampstead	64	6th	31	2nd	53·9	39·1	46·1	—	41	8	2	21	•	•	•	•	3	0·41	—	5·7	—	44	—	*Hampstead.*
a Camden Square ..	67	6th	32	2nd	57·7	40·1	48·5	—	53	5	1	29	•	•	•	•	2	0·32	—	5·4	—	42	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S.	52	2nd	33	1st	48·9	40·4	44·5	+ 1·7	24	4	•	•	•	•	•	•	6	2·22	+ 1·55	•	•	•	•	
p Glasgow	53	3, 6	34	1st	50·3	40·9	45·4	+ 3·0	28	3	1	28	•	•	•	•	5	1·18	+ 0·68	3·4	− 0·2	26	− 2	Glasgow.
p Rothesay	54	2, 3	35	2nd	51·0	41·3	45·9	+ 2·5	30	2	•	•	•	•	44·0	+1·3	6	1·43	+ 0·74	•	•	•	•	
a Kilmarnock ..	53	3, 6	31	1st	50·0	39·9	44·7	+ 2·0	28	6	•	•	•	•	•	•	3	1·76	—	3·9	—	30	—	*Kilmarnock.*
a Colmonell ..	57	3rd	32	3rd	52·1	40·4	46·0	+ 2·5	35	4	0	31	•	•	•	•	4	0·61	− 0·03	•	•	•	•	
p Dumfries	56	6th	33	1, 3	52·1	39·7	45·6	+ 2·6	35	6	3	25	43·7	•	44·0	•	3	0·43	− 0·13	3·3	—	25	—	*Dumfries.*
p Cally, Gatehouse	55	3rd	31	1, 3	51·6	37·3	44·1	+ 1·3	34	13	•	•	•	•	•	•	5	0·92	+ 0·16	•	•	•	•	
b I. OF MAN.																								
p Douglas	57	6th	34	1st	51·1	40·7	45·7	+ 2·3	31	4	2	29	•	•	•	•	4	0·13	− 0·48	5·3	0·0	41	0	Douglas.
											3	20	42·8	+2·1	43·3	+2·5	—	—	—	2·4	—	19	—	*Burnley.*
											•	•	•	•	•	•	—	—	—	5·4	—	42	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	55	2nd	31	1st	51·9	38·7	45·0	+ 2·7	35	9	3	25	44·5	•	44·5	•	4	0·79	+ 0·24	4·0	—	31	—	Aspatria.
p Newton Rigg	55	3, 4, 5, 6	29	3rd	52·3	37·9	44·8	+ 3·1	37	11	3	20	43·8	+1·7	42·8	+1·5	3	0·27	− 0·26	4·1	− 0·3	32	− 3	Newton Rigg.
p Stonyhurst	55	6th	32	2nd	49·9	39·1	44·2	+ 1·7	28	8	3	25	•	•	•	•	3	0·96	+ 0·29	3·1	− 1·2	24	− 10	Stonyhurst.
p Blackpool	53	4, 6	34	1st	49·9	40·6	45·0	+ 1·7	27	4	•	•	•	•	•	•	3	0·31	− 0·16	4·7	+ 0·4	36	+ 3	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	57	4th	33	1st	52·1	41·6	46·6	+ 2·1	34	1	•	•	•	•	•	•	2	0·11	− 0·29	4·6	—	35	—	*Liverpool.*
a Hawarden Bridge ..	61	5th	32	2nd	56·4	41·0	47·9	+ 2·6	46	3	2	27	46·2	+2·9	45·2	+1·9	1	0·06	− 0·26	4·9	+ 0·3	38	+ 2	*Southport.*
											0	31	43·7	+1·8	45·4	+2·5	—	—	—	2·7	—	21	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	57	3, 6	35	1st	53·0	41·4	46·9	+ 2·1	37	2	•	•	•	•	•	•	2	0·16	− 0·28	5·7	+ 1·2	44	+ 9	Llandudno.
a Holyhead	57	6th	37	1st	51·9	41·6	46·5	+ 1·9	33	1	•	•	•	•	•	•	1	0·12	− 0·40	3·3	—	25	—	Aberdovey.
p Bettws-y-Coed ..	60	6th	31	2nd	53·0	39·9	46·1	+ 1·4	38	6	2	29	45·1	+3·0	45·9	+2·5	2	0·43	—	5·1	—	39	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·9	—	30	—	Aberystwyth.
a Llangammarch Wells	62	5th	27	2nd	52·9	39·6	45·9	+ 3·3	37	7	2	20	45·0	+2·3	45·2	+1·6	5	0·26	—	3·6	—	28	—	Llangammarch
a Pembroke	52	6th	38	1st	50·0	42·6	46·1	+ 1·5	29	0	*	*	*	*	*	*	3	0·54	+ 0·06	2·2	- 3·0	17	-24	Pembroke.[Wells
p Cardiff	58	3rd	33	2nd	51·7	41·3	46·3	+ 0·6	33	2	1	26	46·9	+3·6	46·5	+2·9	3	0·10	- 0·52	*3·7*	—	*29*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	57	3rd	33	2nd	52·9	41·6	47·0	+ 1·8	37	1	1	28	*	*	*	*	2	0·21	- 0·31	*4·6*	—	*36*	—	*Clifton.*
a Shaftesbury	58	5, 6	30	2nd	52·9	38·4	45·3	+ 1·9	38	10	*	*	46·4	*	*	*	2	0·63	+ 0·12	*	*	*	*	Shaftesbury.
a Arlington	54	3rd	32	2nd	49·6	40·9	45·0	+ 1·3	26	3	*	*	48·8	*	*	*	4	0·75	+ 0·02	3·6	- 1·5	28	-12	Newquay.
a Cullompton	60	3rd	31	2nd	54·7	42·3	48·2	+ 3·3	43	0	1	28	48·5	*	*	*	3	0·42	- 0·10	3·2	- 1·5	25	-11	Cullompton.
a Portland	56	6th	37	1st	51·3	44·4	47·2	+ 1·7	36	0	*	*	*	*	*	*	1	0·41	—	*5·4*	—	*42*	—	*Weymouth.*
p Plymouth	59	3rd	33	2nd	54·0	43·4	48·5	+ 2·5	46	0	1	23	48·3	+2·3	*	*	2	0·25	- 0·29	4·3	- 0·8	33	- 6	Plymouth.
p Falmouth	56	5th	40	1, 2	52·6	45·0	48·6	+ 2·7	46	0	*	*	*	*	*	*	2	0·32	- 0·32	4·5	- 0·8	35	- 6	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	51	3rd	37	1, 4	48·6	40·4	44·5	+ 0·7	23	4	*	*	*	*	*	*	4	0·41	- 0·04	*	*	*	*	*
a Blacksod Point ..	56	6th	36	1st	51·3	43·4	47·2	+ 2·2	36	0	*	*	*	*	*	*	2	0·14	- 0·59	*	*	*	*	*
p Markree Castle ..	59	5th	31	3rd	54·6	40·3	47·1	+ 3·4	43	5	2	27	46·8	*	45·3	*	4	0·19	- 0·45	4·2	0·0	32	0	Markree Castle.
a Birr Castle	57	6th	30	1, 2	53·9	37·9	45·5	+ 1·8	42	11	*	*	*	*	*	*	2	0·10	- 0·40	*2·4*	- *2·1*	*19*	-*16*	*Birr Castle.*
b, East .. *p* Armagh	59	6th	31	1st	54·4	40·0	46·9	+ 3·3	43	6	3	21	45·4	+1·4	45·0	+0·8	4	0·17	- 0·33	2·4	- 1·8	19	-14	Armagh.
a Donaghadee	60	5th	35	1st	53·7	40·3	46·7	+ 2·8	40	5	*	*	*	*	*	*	0	0·00	- 0·46	*	*	*	*	*
											3	27	47·3	+2·8	46·7	+1·5	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	26	*	*	*	*	—	—	—	4·1	- 0·7	32	- 6	Phœnix Park.
a, East .. *p* Dublin, City ..	61	4, 6	35	1st	56·3	43·4	49·5	+ 3·7	53	0	0	32	*	*	*	*	1	0·21	- 0·22	*	*	*	*	Dublin City.
a Kilkenny ..	62	4th	32	3rd	56·3	40·7	48·1	+ 3·4	48	4	*	*	*	*	*	*	1	0·35	- 0·15	*	*	*	*	*
a Waterford ..	62	5th	33	1st	57·0	42·3	49·3	+ 4·5	51	0	*	*	*	*	*	*	1	0·32	- 0·31	*	*	*	*	*
a Birr Castle	57	6th	30	1, 2	53·9	37·9	45·5	+ 1·8	42	11	*	*	*	*	*	*	2	0·10	- 0·40	2·4	- 2·1	19	-16	Birr Castle.
a Foynes	56	4th	34	1st	52·1	42·6	47·1	+ 1·4	36	0	*	*	*	*	*	*	6	0·24	- 0·34	*	*	*	*	*
b, West .. *a* Cahir	62	5th	31	3rd	56·0	41·1	48·2	+ 3·8	47	3	*	*	*	*	*	*	2	0·64	—	*	*	*	*	*
a Killarney	59	4th	33	1st	55·9	43·4	49·4	+ 3·8	52	0	*	*	*	*	*	*	3	0·18	- 0·71	*	*	*	*	*
a Valencia	54	3, 4	41	1, 2	51·7	45·1	48·2	+ 1·8	43	0	*	*	*	*	*	*	7	0·42	- 0·53	2·9	- 1·9	23	-15	Valencia.
a Roche's Point	60	5, 6	37	1, 2	54·9	42·4	48·4	+ 2·4	45	0	*	*	*	*	*	*	4	0·33	- 0·32	4·6	—	36	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	56	3rd	40	1st	53·1	44·3	48·5	+ 1·3	46	0	*	*	*	*	*	*	5	0·49	+ 0·02	4·6	- 0·7	36	- 6	Scilly.
a Jersey, St. Aubins ..	57	3rd	39	4th	53·1	43·0	47·8	+ 1·0	41	0	*	*	*	*	*	*	7	0·33	- 0·17	3·9	- 1·8	30	-14	St. Heliers.
a Guernsey (Villa Carey)	57	3rd	39	1, 2	52·4	44·3	48·2	+ 1·2	43	0	0	34	48·9	+1·7	48·9	+2·1	6	0·41	- 0·15	4·7	- 1·0	36	-12	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·6 hrs. 43 °/₀; Newcastle (Pendower), hrs. °/₀; Ramsgate, 6·0 hrs. 47 °/₀; Rhyl, 5·6 hrs. 43 °/₀; Salcombe, 4·2 hrs. 33 °/₀; Tenby, 2·6 hrs. (- 2·8) 20 °/₀ (- 22 °/₀); Torquay, 5·0 hrs. (- 0·3) 39 °/₀ (- 2 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, April 6th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	—			°	°	°	
SCOTLAND, N. ..	Lerwick	—	—	—	—	SCOTLAND, W. ..	Lamlash	46	43	44·5	+0·2
	Kirkwall	46	46	46·0	+3·0		Ballantrae .. .	48	42	44·7	+0·3
	Wick	46	46	46·0	+2·6	ENGLAND, N.W. ..	Port Erin	47	45	46·0	+1·3
	Cromarty	43	41	42·7	+0·5		Newquay	50	49	49·6	+1·6
SCOTLAND, E. ..	Pennan Bay	44	43	43·6	+0·9	ENGLAND, S.W. ..	Scilly	53	51	51·8	—
	Aberdeen, Cove Bay	46	43	44·5	+1·8		Plymouth‡	51	49	49·7	+2·3
ENGLAND, N.E. ..	Burnmouth, Berwick	42	41	41·4	—		Salcombe	53	42	48·9	+2·5
	Scarborough	45	39	43·2	+0·9	IRELAND, N.W. ..	Sheephaven	46	46	46·0	-0·3
ENGLAND, E. ..	Shipwash Lightship	49	46	47·2	+5·0		Teelin	49	46	46·9	+0·3
	Margate‡	49	48	48·1	+3·9	IRELAND, S.W. ..	Cleggan	48	44	46·4	+0·2
ENGLAND, S.E. ..	Eastbourne‡	49	47	47·4	+3·2	IRELAND, E.	Seafield	50	47	48·7	+0·6
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FOURTEENTH WEEK—March 31st to April 6th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	56	30	48·1	38·5	43·1	+ 2·1	22	+ 2	10	— 15	7	+ 3	2·57	+1·79	3·5	—0·9	26	— 7
Eastern.																		
1. SCOTLAND, EAST ...	64	27	52·0	38·7	45·0	+ 3·6	35	+ 9	9	— 17	4	0	0·44	0·00	4·6	0·0	35	0
2. ENGLAND, N.E.	66	28	53·7	39·2	46·1	+ 3·6	40	+ 15	8	— 11	2	— 2	0·18	—0·20	4·1	—0·9	32	— 7
3. ENGLAND, EAST ...	69	30	56·3	39·7	47·6	+ 3·8	49	+ 15	6	— 14	3	0	0·17	—0·17	5·8	+0·7	45	+ 5
4. MIDLAND COUNTIES ...	68	29	55·6	39·4	47·1	+ 3·3	47	+ 11	7	— 14	2	— 1	0·13	—0·28	4·7	+0·1	36	+ 1
5. ENGLAND, S.E.	66	28	54·6	40·9	47·4	+ 2·2	42	+ 5	3	— 9	2	— 1	0·18	—0·14	5·9	+0·9	46	+ 7
Western.																		
6. SCOTLAND, WEST ...	57	31	50·9	40·1	45·2	+ 2·4	30	+ 4	5	— 14	5	+ 2	1·09	+0·42	4·4	—0·6	34	— 5
7. ENGLAND, N.W.	61	29	52·2	40·2	45·9	+ 2·2	35	+ 7	5	— 11	2	— 2	0·36	—0·16	4·4	+0·3	34	+ 2
8. ENGLAND, S.W.	62	27	52·3	41·9	46·8	+ 1·5	34	— 1	0	— 10	3	0	0·39	—0·15	3·6	—1·5	28	—12
9. IRELAND, NORTH ...	60	30	52·8	40·4	46·3	+ 2·3	37	+ 7	4	— 11	3	— 1	0·17	—0·41	3·3	—1·2	25	—10
10. IRELAND, SOUTH ...	62	30	54·9	42·1	48·2	+ 2·6	43	+ 5	0	— 10	3	0	0·31	—0·31	3·5	—1·6	27	—12
11. ENGLISH CHANNEL ...	57	39	52·9	43·9	48·2	+ 0·6	43	+ 1	0	— 2	6	+ 3	0·41	—0·01	4·4	—1·6	34	—13

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 5 Weeks, March 3rd to April 6th, 1912.

0. SCOTLAND, NORTH ...	56	26	*	*	*	*	93	+ 26	81	— 65	30	+ 6	7·12	+2·31	3·5	+0·1	29	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	64	21	*	*	*	*	124	+ 31	98	— 60	25	+ 5	2·76	+0·24	3·7	—0·1	31	— 1
2. ENGLAND, N.E	66	27	*	*	*	*	150	+ 47	61	— 64	20	+ 2	2·21	+0·24	3·5	—0·8	29	— 6
3. ENGLAND, EAST ...	69	29	*	*	*	*	190	+ 57	37	— 96	22	+ 6	2·64	+0·90	3·7	—0·6	31	— 5
4. MIDLAND COUNTIES ...	68	28	*	*	*	*	169	+ 31	57	— 78	21	+ 5	3·42	+1·46	3·3	—0·6	28	— 5
5. ENGLAND, S.E.	66	28	*	*	*	*	184	+ 44	27	— 69	21	+ 6	3·47	+1·54	4·1	—0·2	34	— 1
Western.																		
6. SCOTLAND, WEST ...	59	27	*	*	*	*	117	+ 22	55	— 61	28	+ 8	5·50	+1·66	3·5	—0·4	29	— 4
7. ENGLAND, N.W.	61	27	*	*	*	*	137	+ 33	45	— 58	23	+ 4	4·15	+1·47	3·3	—0·4	27	— 3
8. ENGLAND, S.W.	62	27	*	*	*	*	165	+ 27	21	— 59	27	+ 9	5·77	+2·82	3·3	—1·0	27	— 9
9. IRELAND, NORTH ...	60	30	*	*	*	*	143	+ 26	54	— 43	27	+ 5	3·81	+0·79	3·3	—0·4	27	— 4
10. IRELAND, SOUTH ...	63	29	*	*	*	*	159	+ 38	32	— 42	29	+10	4·33	+1·05	3·9	—0·3	32	— 3
11. ENGLISH CHANNEL ...	62	35	*	*	*	*	206	+ 41	3	— 25	28	+ 9	5·52	+3·11	3·8	—1·4	32	—12

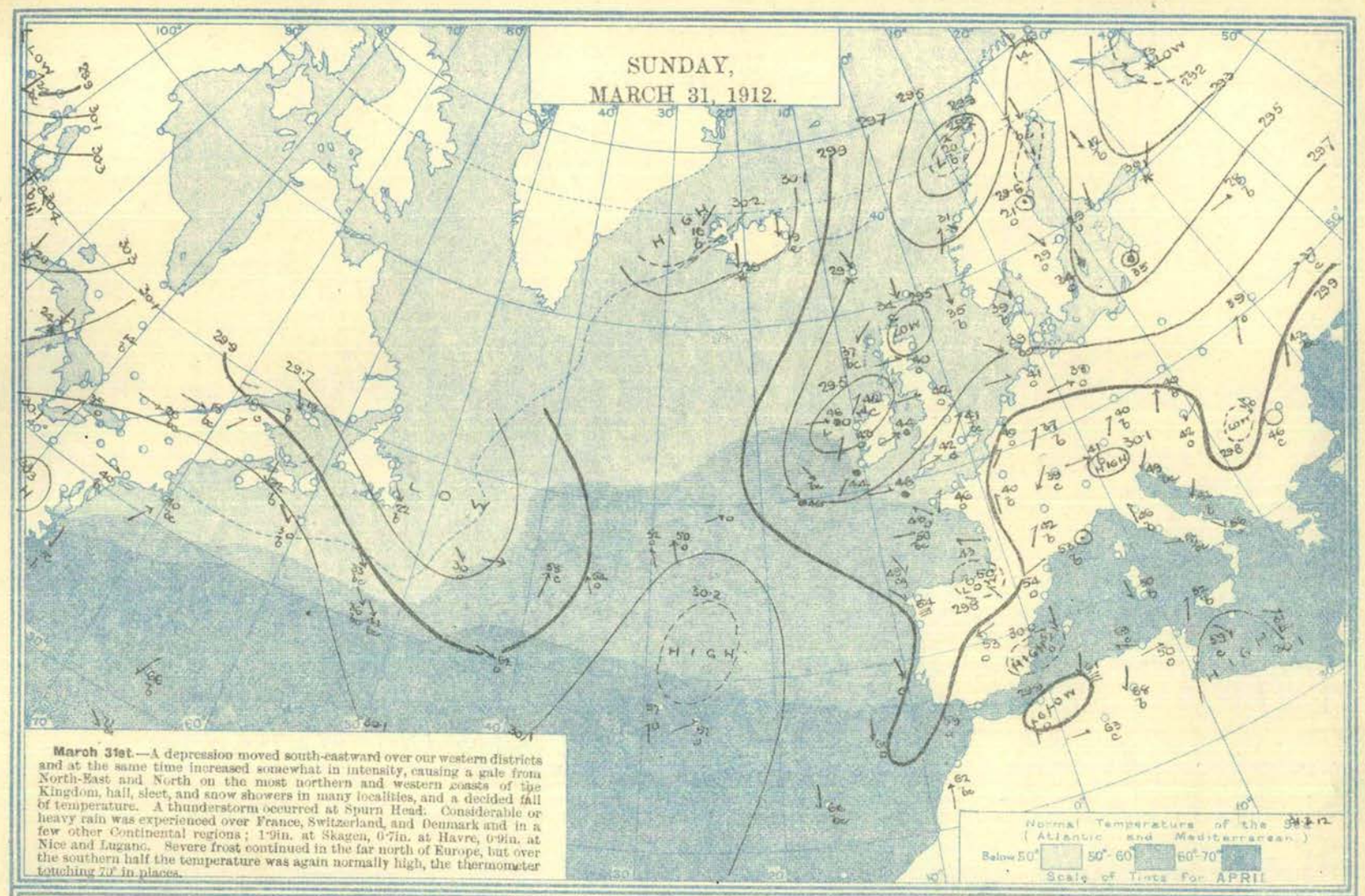
THE YEAR.—Aggregates, &c., for the Period of 14 Weeks, December 31st, 1911, to April 6th, 1912.

0. SCOTLAND, NORTH ...	57	7	*	*	*	*	167	+ 40	377	— 99	74	+ 4	14·69	—1·08	2·2	+0·1	24	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	64	—5	*	*	*	*	199	+ 38	441	— 94	68	+13	8·15	+0·64	2·3	—0·3	24	— 3
2. ENGLAND, N.E.	66	10	*	*	*	*	251	+ 68	332	— 94	61	+10	6·71	+1·35	2·2	—0·6	22	— 6
3. ENGLAND, EAST ...	69	14	*	*	*	*	322	+ 99	244	—228	61	+11	6·93	+1·82	2·2	—0·8	22	— 7
4. MIDLAND COUNTIES ...	68	9	*	*	*	*	296	+ 54	329	—142	59	+10	9·14	+3·00	2·0	—0·6	20	— 6
5. ENGLAND, S.E.	66	13	*	*	*	*	339	+ 81	197	—158	60	+13	9·29	+2·91	2·3	—0·6	23	— 6
Western.																		
6. SCOTLAND, WEST ...	59	12	*	*	*	*	208	+ 24	308	— 70	67	+ 7	14·25	+1·56	2·2	—0·3	22	— 3
7. ENGLAND, N.W.	61	7	*	*	*	*	261	+ 63	276	— 78	62	+ 7	9·99	+1·64	2·3	—0·2	23	— 2
8. ENGLAND, S.W.	62	9	*	*	*	*	343	+ 54	180	— 99	73	+19	13·95	+4·00	2·3	—0·6	22	— 7
9. IRELAND, NORTH ...	60	15	*	*	*	*	302	+ 60	225	— 89	61	— 3	10·50	+0·95	2·3	—0·2	24	— 2
10. IRELAND, SOUTH ...	63	13	*	*	*	*	398	+ 61	162	— 77	75	+18	13·18	+2·35	2·6	—0·3	26	— 3
11. ENGLISH CHANNEL ...	62	27	*	*	*	*	527	+143	44	— 63	67	+ 7	11·85	+3·53	2·8	—0·8	27	— 8

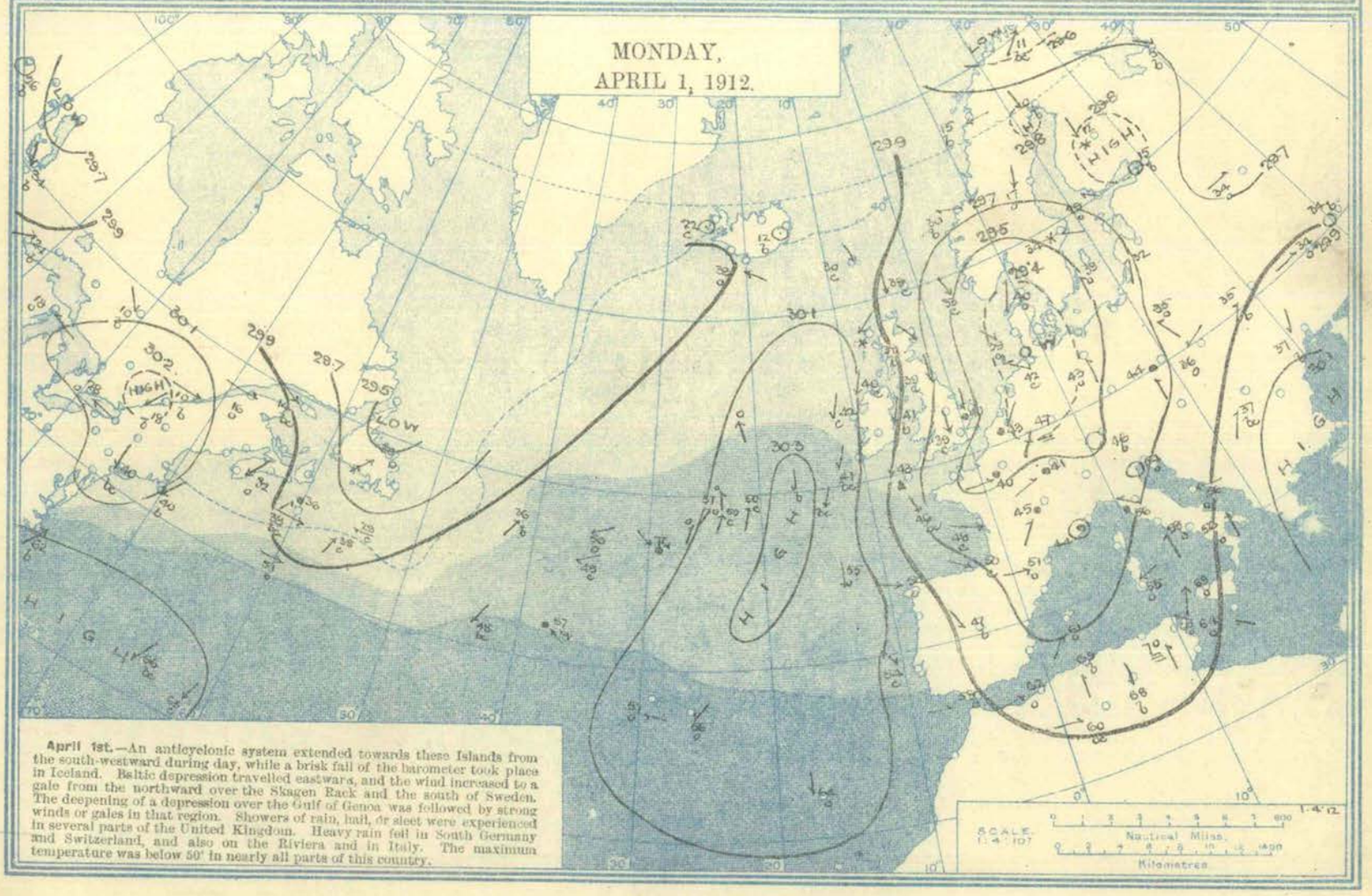
NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given

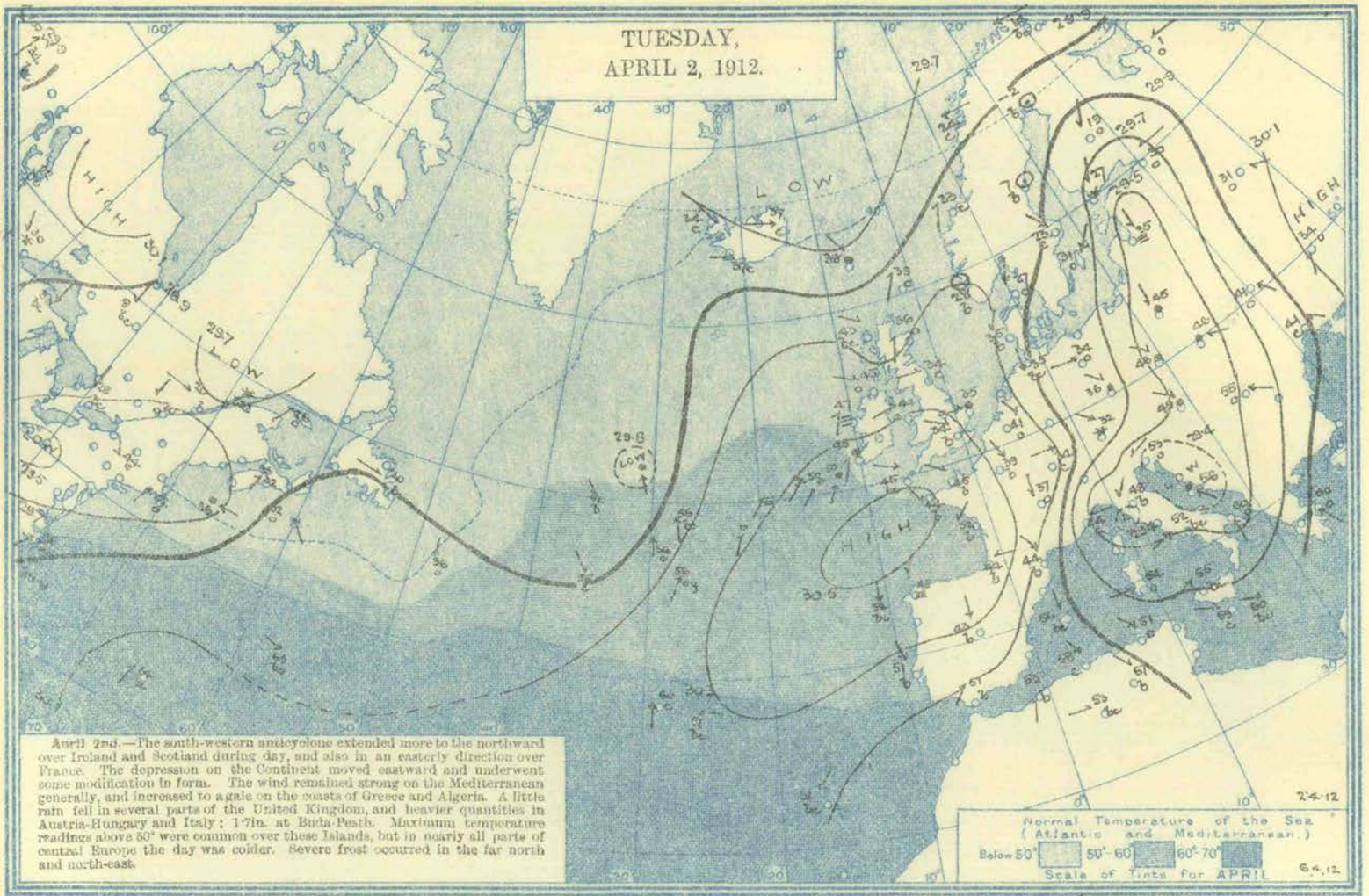
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



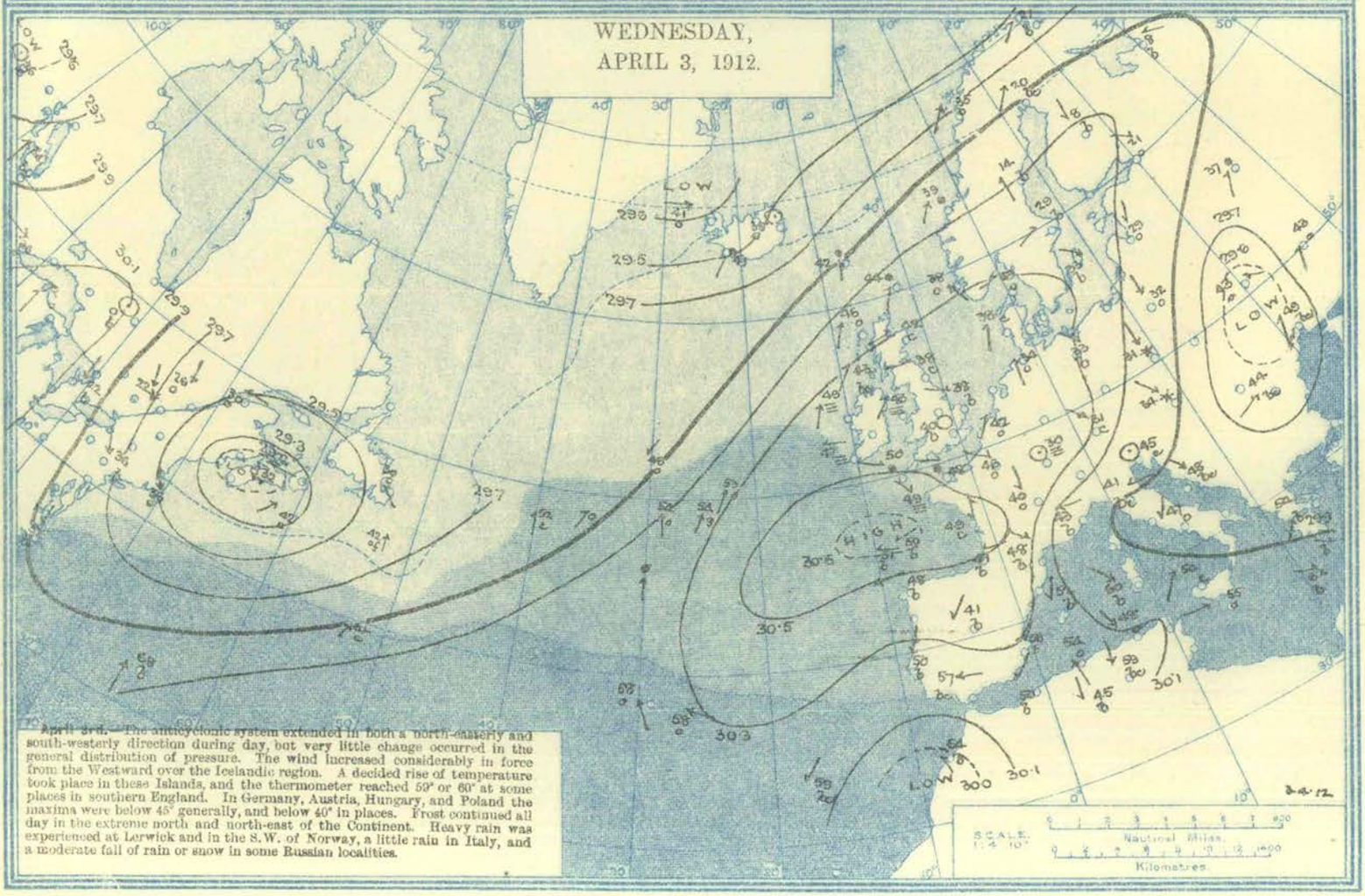
March 31st.—A depression moved south-eastward over our western districts and at the same time increased somewhat in intensity, causing a gale from North-East and North on the most northern and western coasts of the Kingdom, hail, sleet, and snow showers in many localities, and a decided fall of temperature. A thunderstorm occurred at Spurn Head. Considerable or heavy rain was experienced over France, Switzerland, and Denmark and in a few other Continental regions; 1·9in. at Skagen, 0·7in. at Havre, 0·9in. at Nice and Lugano. Severe frost continued in the far north of Europe, but over the southern half the temperature was again normally high, the thermometer touching 70° in places.



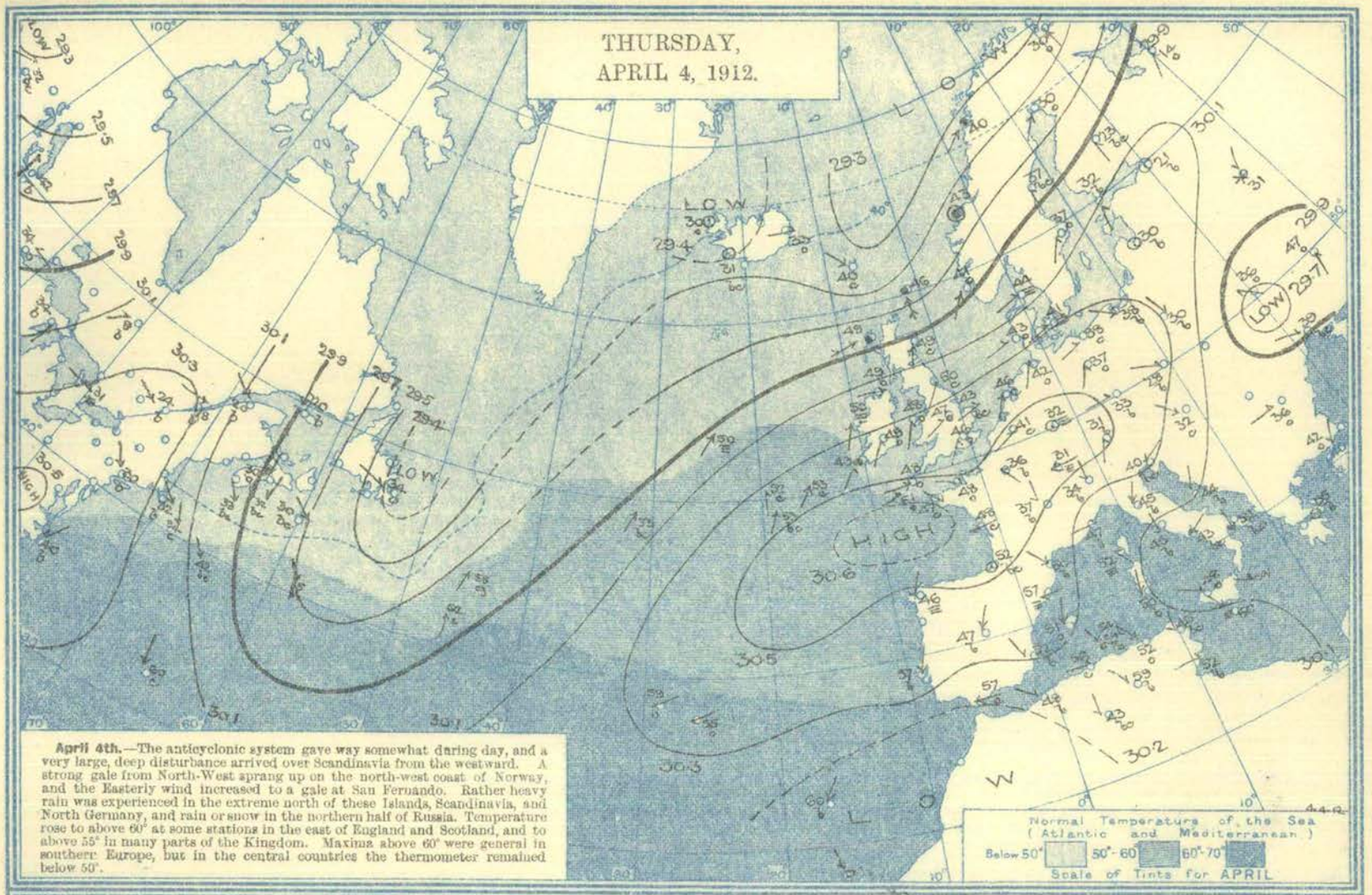
April 1st.—An anticyclonic system extended towards these Islands from the south-westward during day, while a brisk fall of the barometer took place in Iceland. Baltic depression travelled eastwards, and the wind increased to a gale from the northward over the Skagen Rack and the south of Sweden. The deepening of a depression over the Gulf of Genoa was followed by strong winds or gales in that region. Showers of rain, hail, or sleet were experienced in several parts of the United Kingdom. Heavy rain fell in South Germany and Switzerland, and also on the Riviera and in Italy. The maximum temperature was below 50° in nearly all parts of this country.



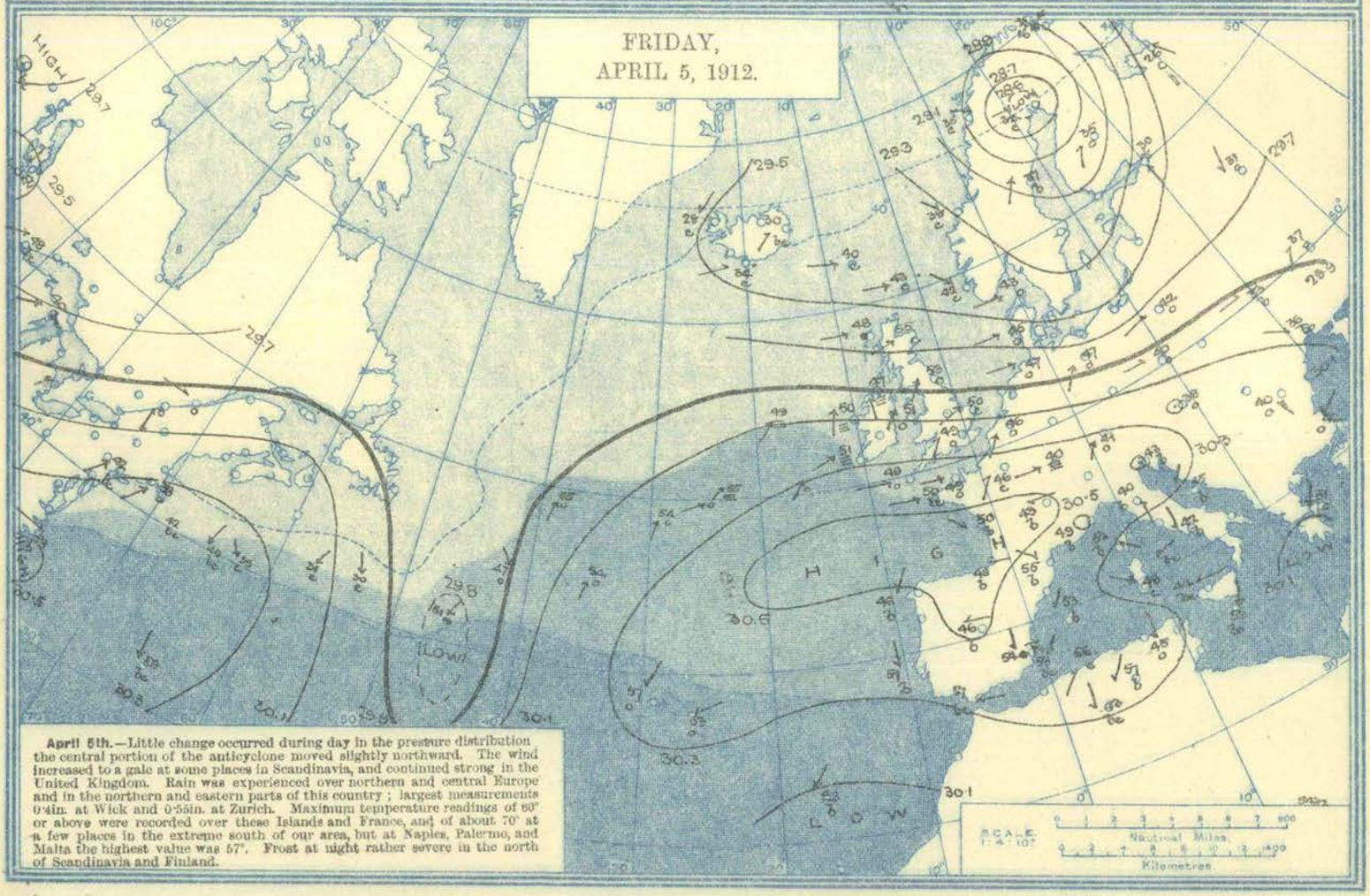
April 2nd.—The south-western anticyclone extended more to the northward over Ireland and Scotland during day, and also in an easterly direction over France. The depression on the Continent moved eastward and underwent some modification in form. The wind remained strong on the Mediterranean generally, and increased to a gale on the coasts of Greece and Algeria. A little rain fell in several parts of the United Kingdom, and heavier quantities in Austria-Hungary and Italy; 1·7in. at Buda-Pesth. Maximum temperature readings above 50° were common over these Islands, but in nearly all parts of central Europe the day was colder. Severe frost occurred in the far north and north-east.



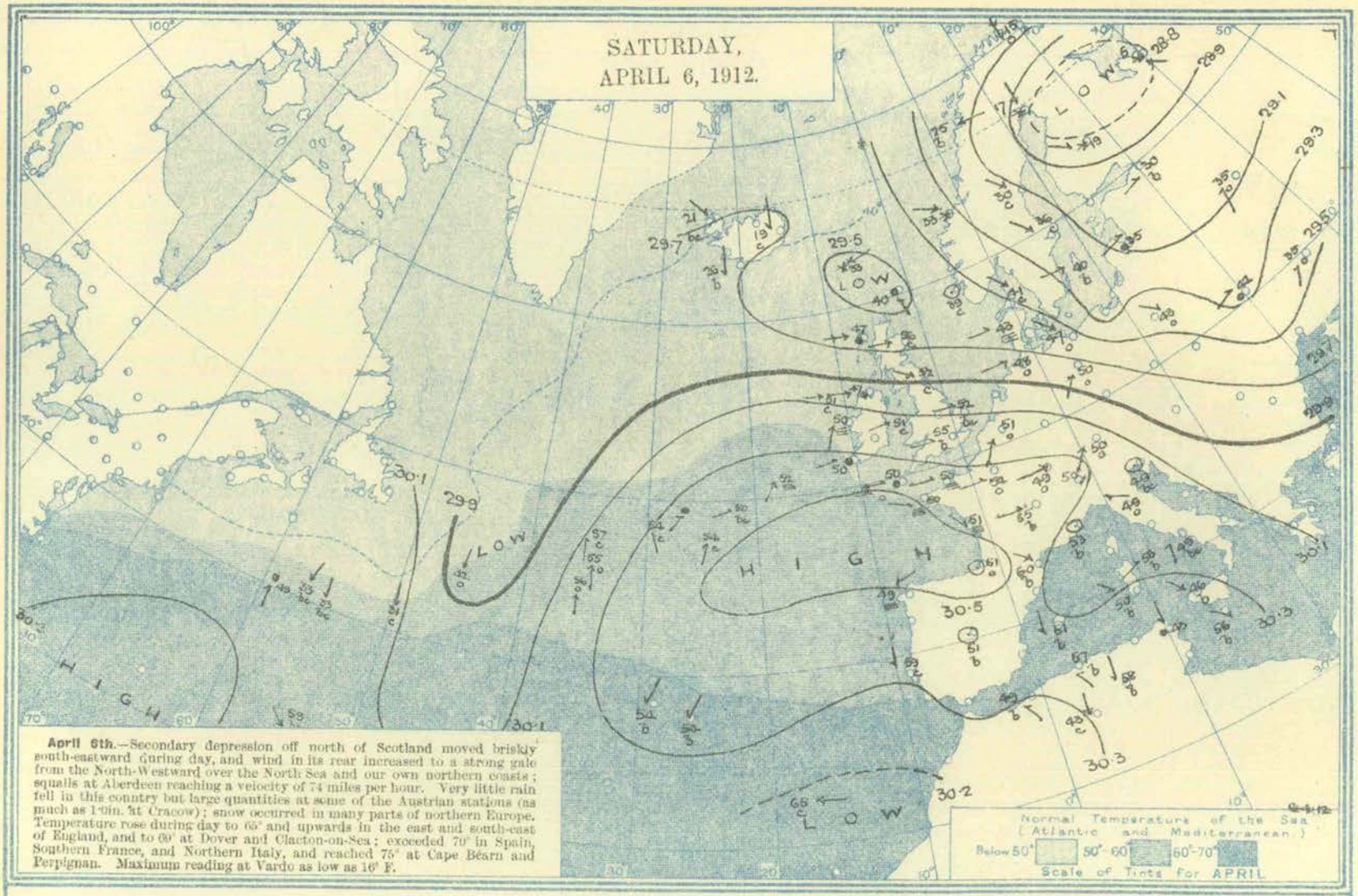
April 3rd.—The anticyclonic system extended in both a north-easterly and south-westerly direction during day, but very little change occurred in the general distribution of pressure. The wind increased considerably in force from the Westward over the Icelandic region. A decided rise of temperature took place in these Islands, and the thermometer reached 59° or 60° at some places in southern England. In Germany, Austria, Hungary, and Poland the maxima were below 45° generally, and below 40° in places. Frost continued all day in the extreme north and north-east of the Continent. Heavy rain was experienced at Lerwick and in the S.W. of Norway, a little rain in Italy, and a moderate fall of rain or snow in some Russian localities.



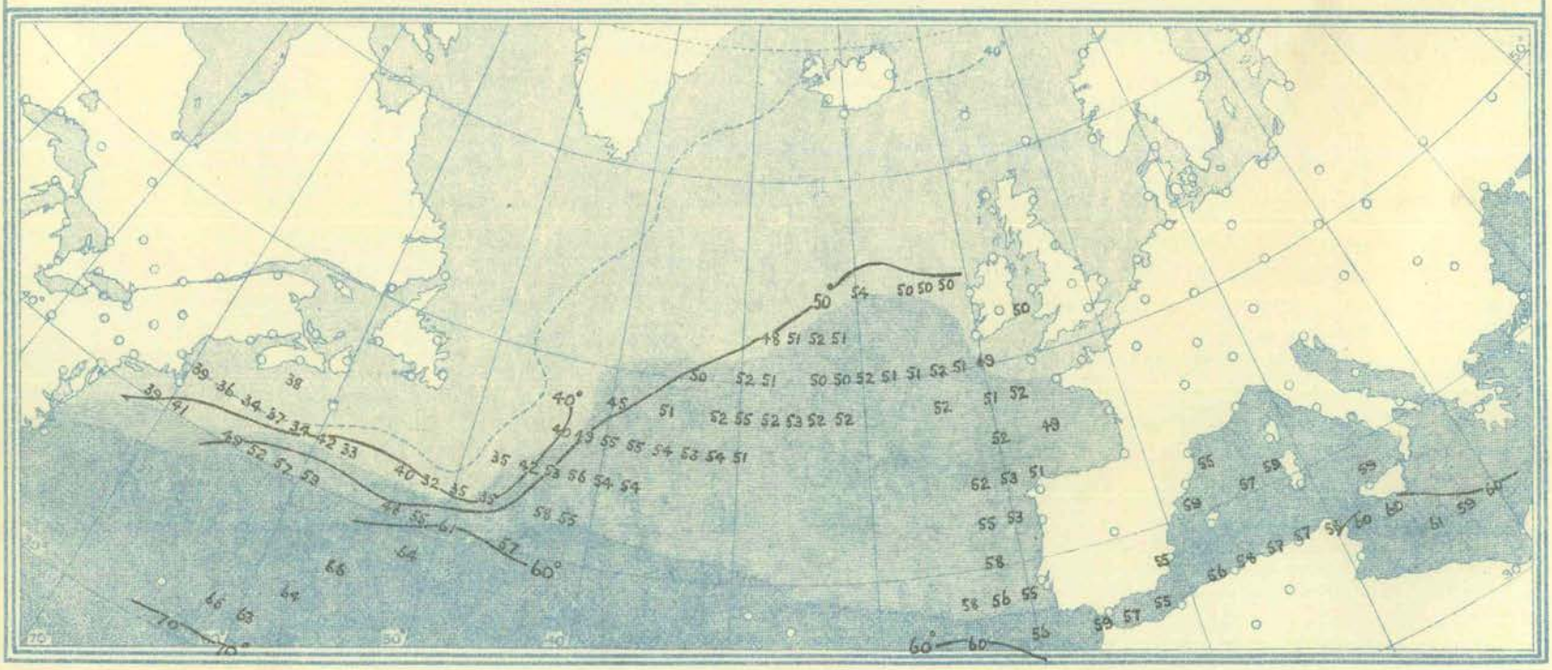
April 4th.—The anticyclonic system gave way somewhat during day, and a very large, deep disturbance arrived over Scandinavia from the westward. A strong gale from North-West sprang up on the north-west coast of Norway, and the Easterly wind increased to a gale at San Fernando. Rather heavy rain was experienced in the extreme north of these Islands, Scandinavia, and North Germany, and rain or snow in the northern half of Russia. Temperature rose to above 60° at some stations in the east of England and Scotland, and to above 55° in many parts of the Kingdom. Maxima above 60° were general in southern Europe, but in the central countries the thermometer remained below 50°.



April 5th.—Little change occurred during day in the pressure distribution the central portion of the anticyclone moved slightly northward. The wind increased to a gale at some places in Scandinavia, and continued strong in the United Kingdom. Rain was experienced over northern and central Europe and in the northern and eastern parts of this country; largest measurements 0·4in. at Wick and 0·55in. at Zurich. Maximum temperature readings of 60° or above were recorded over these Islands and France, and of about 70° at a few places in the extreme south of our area, but at Naples, Palermo, and Malta the highest value was 57°. Frost at night rather severe in the north of Scandinavia and Finland.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 6TH APRIL, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; • = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* No. 15. FIFTEENTH WEEK, SUNDAY, APRIL 7TH, TO SATURDAY, APRIL 13TH, 1912. *Price 6d.* *Annual Subscription Post Paid* £1 10s. 0d.

I.—General Remarks.

Weather. During the early half of the week the conditions were very unsettled, with rain or passing showers in all districts, and a considerable quantity of sleet and snow in the north. The later days of the period were generally fair or fine, but a few local showers occurred—mostly in the east and north.

Temperature was below the normal except in Ireland S. and the English Channel, but the difference was slight except in the north of Scotland. The highest of the maxima were recorded at most stations either on the 7th or 13th, and ranged from 63° in the Midland Counties and 62° in some other English districts to 54° in Scotland N. The lowest of the minima, which occurred generally between the 9th and 12th, ranged from 20° in Scotland E. and 23° in England S.E. to 40° in the English Channel. The lowest grass readings reported were 14° at Birmingham and Newton Rigg, 15° at Raunds and Wisley, and 16° at Kew and Worksop. Both at 1 foot and 4 feet below the surface of the soil the temperature was still above the average.

Mean Temperature of the Sea. The water was again warmer than during the corresponding week of last year on almost all parts of our coast, and its temperature was generally above the average. The mean for the week ranged from about 50° on the south-west coast of England to 42° at Cromarty and Burnmouth.

Rainfall was less than the average except in Scotland N. and E. At Stornoway and Fort Augustus as much as 1·2 in. was recorded on the 7th, and at Glencarron 2·6 in. On the 8th the snow at Lerwick yielded 0·96 in. of water. In various parts of eastern and south-eastern England the rain was very slight; at Tottenham, Wisley and Dungeness there was none.

Bright Sunshine was above the average in the eastern section, and also in England N.W., below it elsewhere. The mean daily duration amounted to about 7 hours in England E. and S.E. and the percentage of the possible duration in those districts was as high as 52. In Ireland the mean daily duration was less than 4 hours, and the percentage only 27, while in Scotland N. the daily duration (about 3 hours), was equal to only 22 per cent. of the possible.

Barometer and Wind. At the beginning of the week the weather was dominated by a large anticyclone having its maximum over the Bay of Biscay region, and the wind over these Islands was light from the Westward. By Monday morning, however, the centre of a large depression of increasing intensity had appeared over the north of Scotland, and strong winds or gales from the Westward were general. The force of a strong to whole gale was subsequently experienced on many parts of our western and northern coasts, from between West and North-West in most places, but from North or North-East in the extreme north of Scotland. On Tuesday, when the depression had passed away eastward, the wind had veered to North-West, and the force gradually moderated, a further decrease taking place on Wednesday. During Thursday the Atlantic anticyclone again extended towards these Islands, and on Friday and Saturday covered the entire Kingdom, while the wind became light and rather variable.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 59.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very heavy	Moderate	Light	Light	Light	Light	Moderate	Moderate	Light	Moderate	Moderate	Moderate
	Sunshine ...	Scanty	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 6 weeks from March 3rd, 1912.	Warmth ...	3 * 1	4 * 0	4 * 0	4 * 0	4 * 0	3 * 0	3 * 1	4 * 0	3 * 0	4 * 0	3 * 0	3 * 0
	Rainfall ...	3 * 1	2 * 0	3 * 3	2 * 2	3 * 3	2 * 2	2 * 0	3 * 0	3 * 1	2 * 1	2 * 1	3 * 1
	Sunshine ...	1 * 1	1 * 1	0 * 3	1 * 2	1 * 2	4 * 2	1 * 1	2 * 2	1 * 3	1 * 4	1 * 3	0 * 3

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(23898—24.) Wt. 173—814. 450. 4/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*49*	*13th*	*29*	*11, 12*	*42·1*	*37·0*	*36·3*	—	*0*	*37*	•	•	38·2	•	•	•	*7*	*1·41*	—	*3·6*	—	*26*	—	*Baltasound.*
a Islands .. *a* Lerwick	49	13th	25	11th	41·9	28·6	34·9	- 5·9	0	50	•	•	•	•	•	•	7	2·18	—	3·5	- 1·2	25	- 9	Deerness.
a Stornoway	50	13th	30	12th	45·3	34·7	39·8	- 2·7	9	26	•	•	•	•	•	•	7	2·04	+ 1·34	2·6	- 2·4	19	-18	Stornoway.
a Castlebay, Barra Isd. .	*49*	*7, 13*	*35*	*9, 10, 12*	*46·6*	*38·3*	*42·3*	- *2·9*	*18*	*10*	•	•	•	•	•	•	*4*	*0·49*	—	*4·0*	—	*29*	—	*Castlebay.*
a Wick	51	13th	25	10th	44·0	30·4	36·9	- 5·4	6	40	•	•	•	•	•	•	5	1·33	+ 0·83	•	•	•	•	•
b, Main- *p* Strathpeffer ..	54	13th	30	10, 11, 12	46·7	35·9	41·0	- 1·6	13	23	•	•	•	•	•	•	4	1·00	+ 0·57	3·7	- 0·8	27	- 6	Strathpeffer.
land. *p* Glencarron ..	48	13th	26	12th	43·6	31·9	37·5	- 4·0	4	35	•	•	•	•	•	•	7	3·84	+ 2·54	•	•	•	•	•
p Fort Augustus..	52	13th	27	12th	46·3	33·6	39·7	- 3·0	12	31	•	•	•	•	•	•	7	1·86	+ 1·29	2·5	- 1·1	18	— 8	Fort Augustus.
p Fort William ..	50	13th	25	12th	46·0	34·3	39·9	- 4·0	11	28	•	•	•	•	•	•	5	2·54	+ 1·53	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle..	53	13th	29	12th	47·0	33·4	39·9	- 3·3	14	32	6	22	43·6	+1·5	43·0	+1·8	—	—	—	5·4	—	39	—	Crathes S.
a Nairn	53	13th	28	10, 12	46·9	32·3	39·3	- 3·4	14	35	•	•	•	•	•	•	5	0·74	+ 0·34	*4·1*	—	*30*	—	*Gordon Castle.*
a Aberdeen	54	8, 13	29	12th	47·9	33·9	40·6	- 2·4	17	30	•	•	•	•	43·3	+1·6	4	0·81	+ 0·49	2·9	—	21	—	Nairn.
a Balmoral	53	13th	20	12th	49·3	30·3	39·3	- 0·1	20	43	5	17	•	•	•	•	5	0·35	- 0·11	6·1	+ 1·2	45	+ 9	Aberdeen.
p Crieff	60	13th	26	12th	50·3	33·1	41·3	- 2·5	23	34	•	•	•	•	•	•	5	0·62	+ 0·07	•	•	•	•	Balmoral.
a Leith	58	13th	30	12th	49·0	36·4	42·4	- 1·9	26	16	•	•	•	•	•	•	2	0·23	- 0·31	6·0	—	44	—	Balruddery.
p West Linton ..	53	13th	20	12th	46·7	29·7	37·8	- 3·0	13	44	•	•	•	•	•	•	5	0·19	- 0·10	•	•	•	•	•
p Marchmont ..	54	13th	26	12th	48·3	32·6	40·1	- 1·9	18	35	•	•	•	•	•	•	4	0·48	—	*4·9*	—	*36*	—	*West Linton.*
											4	22	42·1	-0·3	•	•	3	0·22	- 0·27	6·1	+ 1·6	45	+12	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	57	7th	28	12th	50·7	36·3	43·2	+ 0·5	32	16	4	20	42·0	-0·2	43·8	+1·7	4	0·10	- 0·35	6·6	•	49	•	Cockle Park.
a Shields	55	13th	28	12th	50·1	33·9	41·6	- 1·6	23	31	•	•	•	•	•	•	4	0·08	- 0·24	•	•	•	•	•
p Durham	57	13th	26	11, 12	50·3	32·7	41·1	- 1·8	23	36	4	19	•	•	•	•	3	0·09	- 0·26	5·5	+ 1·2	40	+ 9	Durham.
a, North .. *p* Rounton	54	13th	25	12th	49·5	33·4	41·1	- 1·6	21	33	5	22	44·3	•	•	•	2	0·03	- 0·37	•	•	•	•	Rounton.
a West Witton	*56*	*13th*	*26*	*11, 12*	*49·9*	*33·1*	*41·1*	—	*22*	*34*	4	21	43·9	•	42·5	•	3	*0·23*	—	•	•	•	•	*West Witton.*
p Scarborough	55	7th	32	11th	50·3	38·4	44·1	+ 0·3	30	10	•	•	•	•	•	•	3	0·11	- 0·29	5·9	—	43	—	Scarborough.
p York	57	7, 13	28	12th	52·0	36·6	43·9	- 0·8	36	15	•	•	45·4	+1·4	44·9	+1·9	1	0·06	- 0·33	5·2	+ 0·9	39	+ 7	York.
a Spurn Head	54	7, 8	32	12th	49·0	35·7	42·0	- 2·0	20	18	4	21	44·4	+0·5	45·0	+2·3	4	0·08	- 0·18	*5·4*	—	*40*	—	*Hull.*
b, South .. *a* Lincoln	59	7th	28	12th	52·0	35·6	43·4	- 1·7	37	18	•	•	44·8	+0·8	45·2	+2·1	2	0·15	- 0·18	•	•	•	•	Lincoln.
a Fulbeck	58	7th	27	12th	51·7	35·3	43·1	- 1·7	36	19	5	22	47·6	+1·5	46·0	+2·0	3	0·20	- 0·16	7·0	—	52	—	Rauceby.
											•	•	•	•	•	•	—	—	—	7·0	—	52	—	Skegness.
											2	28	46·8	+0·9	47·1	+2·6	—	—	—	*7·5*	—	*56*	—	*Lowestoft.*
3. ENGLAND, E.																	4	0·18	—	7·2	—	54	—	Cromer.
p Cromer	56	8th	32	11th	49·3	36·1	42·4	- 1·5	28	17	•	•	•	•	•	•	3	0·18	- 0·22	6·9	+ 2·0	52	+15	Hillington.
p Hillington	59	7th	27	11, 13	52·4	34·7	43·1	- 1·6	38	20	4	20	•	•	•	•	4	0·21	- 0·13	*8·1*	—	*60*	—	*Yarmouth.*
a, North .. *a* Yarmouth	55	7, 8	32	11th	50·0	37·1	43·2	- 0·4	29	14	•	•	46·7	+0·2	47·7	+2·0	4	0·24	—	*7·1*	—	*53*	—	*Norwich.*
a Norwich	59	7th	29	11th	51·0	36·1	43·2	- 1·1	33	17	4	24	46·8	•	•	•	3	0·18	- 0·18	6·7	+ 1·5	50	+11	Geldeston.
p Geldeston	61	7th	30	11th	52·7	36·3	44·1	- 0·3	39	16	•	•	•	•	•	•								
p Cambridge	62	7th	28	11, 12	53·4	35·9	44·2	- 1·3	41	17	5	21	48·1	+1·8	47·9	+2·6	1	0·11	- 0·22	7·1	+ 2·0	53	+15	Cambridge.
a Felixstowe	*59*	*7th*	*30*	*12th*	*52·4*	*37·6*	*44·6*	*0·0*	*37*	*12*	•	•	•	•	•	•	*2*	*0·20*	—	*8·3*	—	*62*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	58	7th	31	12th	52·1	37·4	44·4	- 0·1	36	13	3	24	47·7	+1·9	48·5	+2·6	2	0·13	—	7·4	—	55	—	Clacton.
a Rothamsted	61	7th	26	12th	53·0	35·7	43·9	- 0·5	40	18	•	•	•	•	•	•	1	0·09	- 0·29	6·8	+ 2·0	51	+15	Rothamsted.
a Shoeburyness	*61*	*7th*	*30*	*12th*	*52·7*	*38·7*	*45·4*	- *0·9*	*38*	*9*	5	24	48·7	+2·3	•	•	*1*	*0·06*	- *0·19*	*6·5*	—	*49*	—	*Southend.*
p Tottenham	61	7th	32	12th	53·3	40·1	46·4	+ 0·7	39	5	2	27	•	•	48·0	+3·1	0	0·00	—	6·4	—	48	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	55	13th	28	12th	49·0	34·6	41·5	- 1·7	20	29	4	20	44·5	+1·6	43·5	+2·3	—	—	—	*5·3*	—	*40*	—	*Huddersfield.*
a Bawtry	61	7th	28	11th	51·7	35·6	43·3	- 1·7	36	18	4	21	43·1	+0·6	43·8	+1·5	3	0·23	- 0·21	6·8	—	51	—	Harrogate.
p Buxton	*55*	*7th*	*25*	*12th*	*48·6*	*33·3*	*40·6*	- *1·0*	*18*	*33*	5	16	45·8	•	45·8	•	3	0·13	- 0·20	5·5	+ 1·3	41	+10	Worksop.
a East .. *a* Nottingham	62	7th	29	12th	52·4	36·0	43·8	- 0·9	38	17	4	19	44·3	+1·5	43·9	+2·3	*3*	*0·72*	+ *0·02*	*6·2*	—	*46*	—	*Buxton.*
p Birmingham, Edgbsn.	61	7th	31	12th	51·9	37·6	44·4	- 0·3	35	12	5	22	45·5	+1·5	45·0	+2·7	3	0·28	- 0·07	6·3	—	47	—	Nottingham.
a Raunds	62	7th	24	12th	54·1	36·4	44·8	+ 0·2	43	16	4	14	44·7	+1·7	45·6	+1·9	3	0·22	- 0·20	6·0	—	45	—	Birmingham.
a Oxford	63	7th	27	12th	53·3	37·6	45·1	- 0·6	40	12	4	15	46·6	—	46·3	—	1	0·06	—	•	•	•	•	Raunds.
											3	20	•	•	•	•	1	0·02	- 0·31	5·8	+ 1·0	43	+ 8	Oxford.
											3	21	44·9	+2·1	44·2	+2·3	—	—	—	7·3	—	55	—	Sheffield.
a Cheadle	60	7th	30	12th	51·3	36·0	43·3	- 0·4	34	17	5	22	•	•	•	•	2	0·29	- 0·18	•	•	•	•	Cheadle.
p Shrewsbury	61	7th	26	12th	51·9	35·4	43·3	- 2·5	37	18	2	24	•	•	•	•	2	0·09	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	63	7th	28	12th	55·2	37·7	46·0	+ 0·3	46	12	3	21	•	•	•	•	3	0·18	- 0·21	•	•	•	•	Hereford.
a Cirencester	62	7th	24	12th	54·1	35·3	44·3	0·0	44	19	2	22	46·9	•	46·3	•	2	0·03	- 0·37	7·5	+ 2·5	56	+19	Cirencester.
a Bath	59	7th	29	12th	54·3	37·6	45·6	- 0·4	44	12	•	•	48·8	+1·9	47·9	+1·5	2	0·22	- 0·24	6·8	—	51	—	Bath.
5. ENGLAND, S.E.																								
p Kew	62	7th	31	12th	52·6	39·3	45·6	- 0·5	37	8	3	25	49·3	+4·2	49·2	+3·7	—	—	—	•	•	•	•	Canterbury.
a Marlborough	61	7th	23	12th	53·3	34·6	43·5	- 0·6	42	21	4	16	48·3	+3·1	48·0	+3·2	2	0·05	- 0·29	6·7	+ 1·3	50	+10	Kew.
a Margate	60	7th	35	11th	51·9	39·8	45·6	+ 0·3	34	6	3	19	•	•	•	•	2	0·08	- 0·39	6·4	+ 1·9	48	+14	Marlborough.
a Wisley, Surrey ..	61	7th	27	12th	53·7	38·1	45·5	- 1·1	41	11	•	•	46·6	+1·6	47·0	+2·7	2	0·14	- 0·17	7·6	+ 2·6	57	+19	Margate.
a Swarraton	61	7th	24	12th	52·0	36·1	43·7	- 1·1	37	17	5	15	47·6	+2·3	47·7	+2·9	0	0·00	—	6·9	—	52	—	Wisley
a Tunbridge Wells ..	61	7th	29	12th	52·3	36·1	43·8	- 1·3	37	17	3	26	48·9	+2·6	48·5	+3·1	1	0·07	- 0·33	7·6	—	57	—	Worthing.
a Dungeness	55	7th	30	12th	51·7	38·3	44·7	- 0·5	34	10	5	21	47·3	+2·1	•	•	1	0·07	- 0·33	7·3	+ 2·2	55	+17	Tunbridge Wells.
p Hastings..	56	7th	34	12th	51·3	39·1	44·9	- 1·1	32	8	•	•	•	•	•	•	0	0·00	- 0·33	7·7	—	58	—	Littlestone.
p Southampton	62	7th	30	12th	54·7	39·6	46·8	- 0·9	44	7	4	28	48·5	•	48·2	•	1	0·07	- 0·32	*7·4*	+ *1·8*	*56*	+*14*	*Hastings.*
a Ventnor	60	7th	35	12th	53·7	40·9	47·0	0·0	40	3	2	24	•	•	•	•	1	0·07	- 0·36	5·9	+ 0·6	44	+ 5	Southampton.
											•	•	•	•	•	•	1	0·02	- 0·37	6·4	+ 0·7	48	+ 5	Ventnor.
											2	25	49·6	+2·4	49·5	+2·5	—	—	—	*7·6*	—	*57*	—	*Portsmouth.*
											•	•	49·3	•	49·1	•	—	—	—	7·2	+ 1·7	54	+13	Eastbourne.
											•	•	48·0	•	48·3	•	—	—	—	*6·5*	—	*49*	—	*Bournemouth.*
LONDON.											3	23	•	•	48·3	•	—	—	—	*7·0*	+ *1·5*	*53*	+*11*	*Brighton.*
a Westminster	*63*	*7th*	*34*	*11th*	*54·1*	*40·7*	*47·1*	+ *0·9*	*41*	*4*	2	29	•	•	•	•	*1*	*0·01*	- *0·33*	*5·7*	+ *2·2*	*43*	+*16*	*Westminster.*
a Greenwich	*64*	*7th*	*32*	*11th*	*54·6*	*39·3*	*46·6*	+ *0·2*	*44*	*8*	5	20	•	•	•	•	*1*	*0·02*	- *0·32*	*5·8*	+ *1·2*	*43*	+ *9*	*Greenwich.*
a Hampstead	*59*	*7th*	*31*	*12th*	*52·1*	*37·6*	*44·5*	—	*36*	*12*	4	21	•	•	•	•	*1*	*0·03*	—	*6·9*	—	*52*	—	*Hampstead.*
a Camden Square ..	*64*	*7th*	*30*	*12th*	*55·7*	*38·7*	*46·8*	—	*47*	*9*	2	25	•	•	•	•	*1*	*0·03*	—	*6·1*	—	*46*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch	51	13th	26	12th	46·7	35·6	40·9	- 3·2	13	24	•	•	•	•	•	•	4	0·66	+ 0·03	•	•	•	•	•
p Glasgow	55	13th	30	12th	48·1	37·0	42·3	- 1·4	23	14	2	26	•	•	•	•	4	0·32	- 0·15	4·7	+ 0·7	35	+ 5	Glasgow.
p Rothesay	51	7, 13	29	12th	48·6	36·7	42·4	- 2·0	25	15	•	•	•	•	44·8	+1·5	4	0·52	- 0·15	•	•	•	•	•
a Kilmarnock	56	13th	27	12th	48·4	35·9	41·9	- 2·0	18	24	•	•	•	•	•	•	4	0·28	—	*5·3*	—	*39*	—	*Kilmarnock.*
a Colmonell	57	13th	27	12th	50·4	37·4	43·6	- 0·7	31	13	1	24	•	•	•	•	5	0·52	- 0·08	•	•	•	•	•
p Dumfries	52	7, 13	27	12th	48·3	35·4	41·5	- 2·9	18	25	4	20	43·9	•	44·9	•	3	0·11	- 0·42	*4·7*	—	*35*	—	*Dumfries.*
p Cally, Gatehouse	55	13th	24	12th	50·1	33·4	41·4	- 2·4	23	33	•	•	•	•	•	•	4	0·39	- 0·34	•	•	•	•	•
b I. OF MAN.																								
p Douglas	54	7th	31	12th	49·1	37·4	43·0	- 1·4	26	13	2	24	•	•	•	•	5	0·48	- 0·10	5·2	- 0·5	38	- 4	Douglas.
											3	19	42·9	+0·6	43·7	+2 3	—	—	—	*4·8*	—	*36*	—	*Burnley.*
											1	22	•	•	•	•	—	—	—	7·5	—	56	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	54	13th	26	12th	49·0	34·0	41·1	- 2·3	20	30	4	20	45·0	•	44·9	•	3	0·19	- 0·31	5·6	—	41	—	Aspatria.
p Newton Rigg	57	13th	25	12th	50·0	32·7	40·9	- 1·8	22	35	5	14	44·1	+0·7	43·3	+1·3	3	0·37	- 0·14	5·9	+ 1·1	43	+ 8	Newton Rigg.
p Stonyhurst	51	13th	30	11, 12	47·4	36·1	41·5	- 2·2	15	23	3	20	•	•	•	•	4	0·65	+ 0·01	5·2	+ 0·5	39	+ 4	Stonyhurst.
p Blackpool	51	13th	26	12th	48·0	36·9	42·2	- 2·3	23	14	•	•	•	•	•	•	3	0·30	- 0·14	6·8	+ 1·9	51	+14	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	54	7th	35	12th	49·4	39·7	44·3	- 0·8	26	6	•	•	•	•	•	•	2	0·18	- 0·22	*7·2*	—	*54*	—	*Liverpool.*
a Hawarden Bridge ..	60	7th	30	9th	51·9	37·4	44·3	- 1·9	35	13	3	18	46·1	+0·9	46·2	+1·9	3	0·24	- 0·06	*7·1*	+ *2·0*	*53*	+*15*	*Southport.*
											1	28	43·9	+0·8	45·9	+2·5	—	—	—	*5·6*	—	*42*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	55	7th	38	9th	51·3	41·6	46·2	+ 0·4	31	1	•	•	•	•	•	•	3	0·41	- 0·02	6·6	+ 1·7	49	+13	Llandudno.
a Holyhead	54	7, 13	39	9, 12	50·9	41·6	46·0	+ 0·6	30	1	•	•	•	•	•	•	3	0·17	- 0·32	4·5	—	34	—	Aberdovey.
p Bettws-y-Coed ..	57	7th	30	11th	51·6	37·9	44·4	- 1·1	34	11	4	29	45·6	+2·2	46·0	+2·0	4	0·87	—	5·8	—	43	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				4·5	—	34	—	
a Llangammarch Wells	56	7th	25	12th	50·6	36·7	43·3	- 0·4	31	15	? 3	20	45·3	+1·3	45·8	+1·7	3	0·57	—	5·1	—	28	—	Aberystwyth.
a Pembroke	53	13th	39	12th	50·9	42·3	46·4	+ 0·9	31	0	*	*	°	°	°	°	3	0·07	- 0·40	4·2	- 1·4	31	-11	Llangammarch
p Cardiff	53	7, 11	32	12th	51·1	39·1	44·8	- 2·2	32	8	1	26	47·8	+2·8	47·1	+2·9	4	0·32	- 0·28	*5·4*	—	*40*	—	Pembroke.[Wells
b, ENGLAND, S.W.																								*Cardiff.*
a Clifton	57	7th	33	12th	53·1	40·6	46·6	- 0·1	38	4	1	29	*	*	*	*	2	0·25	- 0·27	*6·7*	—	*50*	—	*Clifton.*
a Shaftesbury	54	7th	31	12th	50·9	37·1	43·7	- 0·8	32	14	*	*	47·9	*	*	*	2	0·08	- 0·44	*	*	*	*	Shaftesbury.
a Arlington	50	7, 8, 11, 13	29	12th	49·4	39·4	44·2	- 0·4	26	7	*	*	49·5	*	*	*	1	0·23	- 0·47	4·7	- 0·8	35	- 6	Newquay.
a Cullompton	62	7th	37	12th	55·0	41·4	47·9	+ 1·9	44	2	1	30	50·0	*	*	*	5	0·26	- 0·26	5·6	+ 0·7	42	+ 5	Cullompton.
a Portland	54	7th	33	13th	51·3	41·3	46·1	- 0·4	32	2	*	*	*	*	*	*	1	0·01	—	*6·6*	—	*50*	—	*Weymouth.*
p Plymouth	61	7th	35	12th	53·5	42·5	47·7	+ 0·6	40	0	1	22	49·8	+2·4	*	*	4	0·18	- 0·35	6·2	+ 0·8	47	+ 6	Plymouth.
p Falmouth	56	7th	37	12th	51·3	43·6	47·3	+ 0·5	37	0	*	*	*	*	*	*	5	0·16	- 0·47	4·9	- 0·8	37	- 6	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	52	13th	35	9th	47·6	39·7	45·5	- 0·9	20	6	*	*	*	*	*	*	4	0·33	- 0·10	*	*	*	*	
a Blacksod Point ..	54	13th	37	9th	50·6	42·6	46·4	+ 0·4	31	0	*	*	*	*	*	*	3	0·24	- 0·44	*	*	*	*	
p Markree Castle ..	55	7th	33	9th	51·4	38·6	44·7	+ 0·1	33	10	3	25	48·1	*	46·2	*	6	0·52	- 0·10	3·3	- 1·3	24	10	Markree Castle.
a Birr Castle ..	55	13th	31	9th	52·0	37·9	44·6	- 0·4	35	11	*	*	*	*	*	*	5	0·24	- 0·25	*3·1*	- *1·7*	*23*	- *12*	*Birr Castle.*
b, East .. *p* Armagh	58	13th	32	9th	52·0	37·9	44·6	- 0·1	35	11	3	23	46·9	+1·9	45·8	+1·0	4	0·36	- 0·12	4·1	- 0·4	30	- 3	Armagh.
a Donaghadee	57	7th	34	12th	50·0	38·6	44·0	- 0·8	28	10	*	*	*	*	*	*	3	0·34	- 0·12	*	*	*	*	
											3	27	48·0	+2·3	47·7	+2·0	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	26	*	*	*	*	—	—	—	3·4	- 1·8	25	-13	Phœnix Park.
p Dublin, City	56	7th	34	9th	51·9	40·4	45·9	- 0·8	34	4	0	32	*	*	*	*	4	0·21	- 0·21	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	56	7th	34	11, 12	52·1	40·6	46·1	+ 0·5	35	4	*	*	*	*	*	*	5	0·15	- 0·35	*	*	*	*	
a Waterford	59	7th	32	12th	54·3	38·6	46·1	+ 0·3	43	10	*	*	*	*	*	*	3	0·14	- 0·47	*	*	*	*	
a Birr Castle	55	13th	31	9th	52·0	37·9	44·6	- 0·4	35	11	*	*	*	*	*	*	5	0·24	- 0·25	3·1	- 1·7	23	-13	Birr Castle.
a Foynes	54	13th	33	9th	51·0	42·1	46·3	- 0·2	30	0	*	*	*	*	*	*	5	0·27	- 0·30	*	*	*	*	
b, West .. *a* Cahir	56	7th	31	12th	53·2	41·9	47·3	+ 2·2	38	0	*	*	*	*	*	*	4	0·10	—	*	*	*	*	
a Killarney	57	12th	34	9th	53·7	41·9	47·5	+ 1·0	39	0	*	*	*	*	*	*	4	0·22	- 0·62	*	*	*	*	
a Valencia	56	13th	36	12th	52·3	42·7	47·3	0·0	37	0	*	*	*	*	*	*	4	0·14	- 0·79	4·1	- 1·0	31	- 8	Valencia.
a Roche's Point	56	7th	38	9, 10	53·1	42·3	47·4	+ 0·6	38	0	*	*	*	*	*	*	3	0·09	- 0·55	3·7	—	28	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	7, 8, 10	41	12th	52·7	44·1	48·2	+ 0·2	43	0	*	*	*	*	*	*	4	0·08	- 0·38	4·9	- 0·8	37	- 6	Scilly.
a Jersey, St. Aubins ..	55	10, 11	40	13th	53·7	43·9	48·6	+ 0·6	46	0	*	*	*	*	*	*	4	0·33	- 0·15	5·7	- 0·4	43	- 3	St. Heliers.
a Guernsey (Villa Carey)	57	7th	41	13th	54·0	43·7	48·6	+ 0·7	46	0	0	32	49·9	+1·8	49·4	+1·9	4	0·10	- 0·46	6·1	0·0	46	- 0	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·0 hrs. 53 °/₀; Newcastle (Pendower), hrs. °/₀; Ramsgate, 8·2 hrs. 61 °/₀; Rhyl, 7·3 hrs. 55 °/₀; Salcombe, 6·8 hrs. 51 °/₀; Tenby, 4·8 hrs. (- 1·0) 36 °/₀ (- 8 °/₀); Torquay, 6·9 hrs. (+1·3) 52 °/₀ (+10 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, April 13th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	—	—	—	—	SCOTLAND, W. ..	Lamlash	46	42	44·2	-0·7
	Kirkwall	46	46	46·0	+2·6		Ballantrae .. .	47	42	44·9	+0·3
	Wick	46	45	45·7	+2·0	ENGLAND, N.W. ..	Port Erin	47	46	46·6	+1·5
SCOTLAND, E. ..	Cromarty	44	40	42·3	-0·3		Newquay	51	50	50·3	+1·8
	Pennan Bay	44	42	43·1	-0·1	ENGLAND, S.W. ..	Scilly	51	50	50·5	—
	Aberdeen, Cove Bay	46	44	45·0	+1·8		Plymouth‡	51	49	50·0	+2·1
ENGLAND, N.E. ..	Burnmouth, Berwick	43	42	42·1	—		Salcombe	52	49	50·5	+3·6
	Scarborough	47	43	44·5	+1·5	IRELAND, N.W. ..	Sheephaven	48	44	46·2	-0·7
ENGLAND, E. ..	Shipwash Lightship	48	44	46·6	+3·4		Teelin	48	46	46·8	-0·8
	Margate‡	51	47	49·0	+3·4	IRELAND, S.W. ..	Cleggan	48	45	46·9	0·0
ENGLAND, S.E. ..	Eastbourne‡	49	47	47·6	+2·3		Seafield	51	48	49·4	+0·7
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1903-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

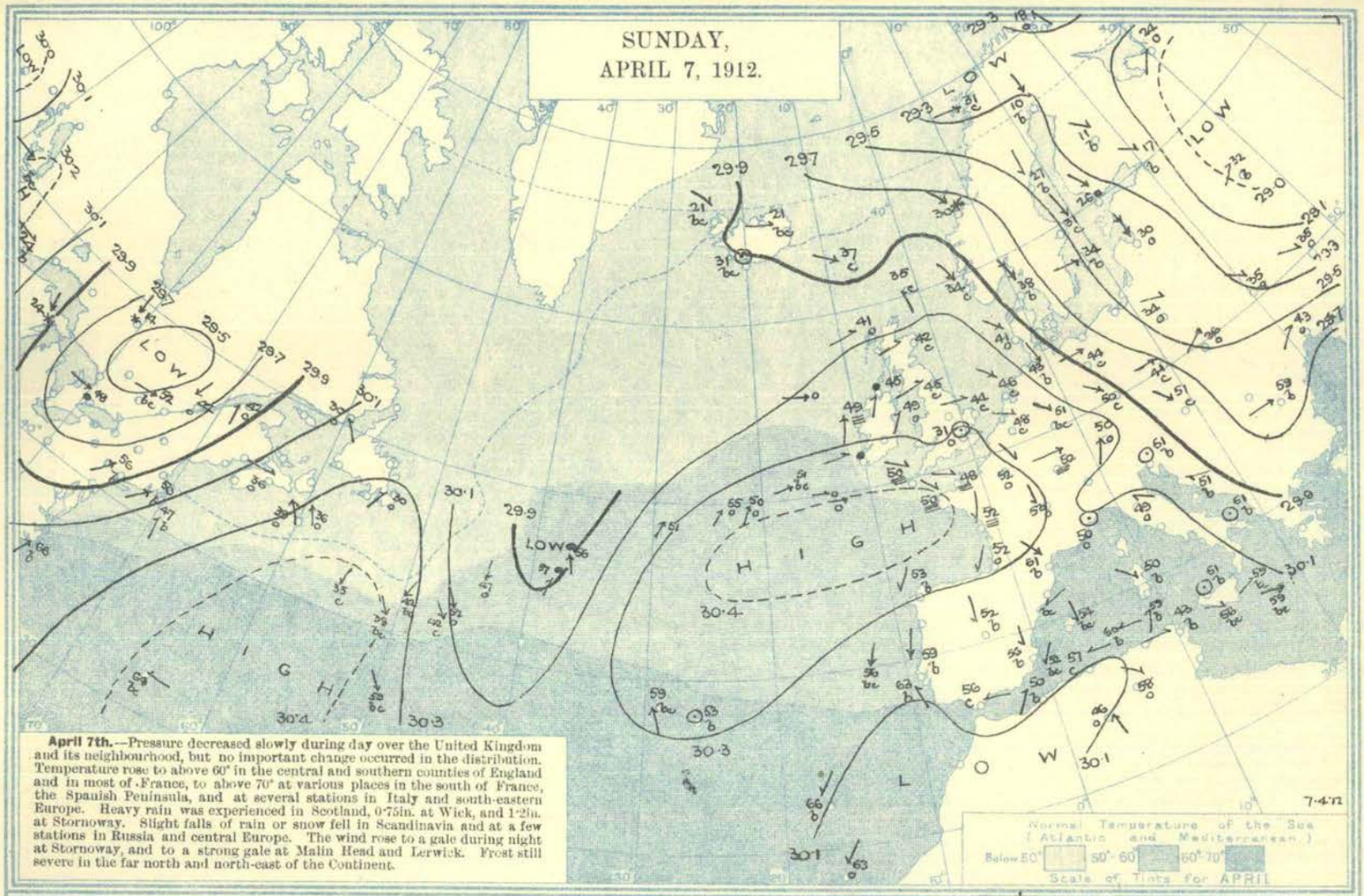
The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTEENTH WEEK—April 7th to April 13th, 1912.

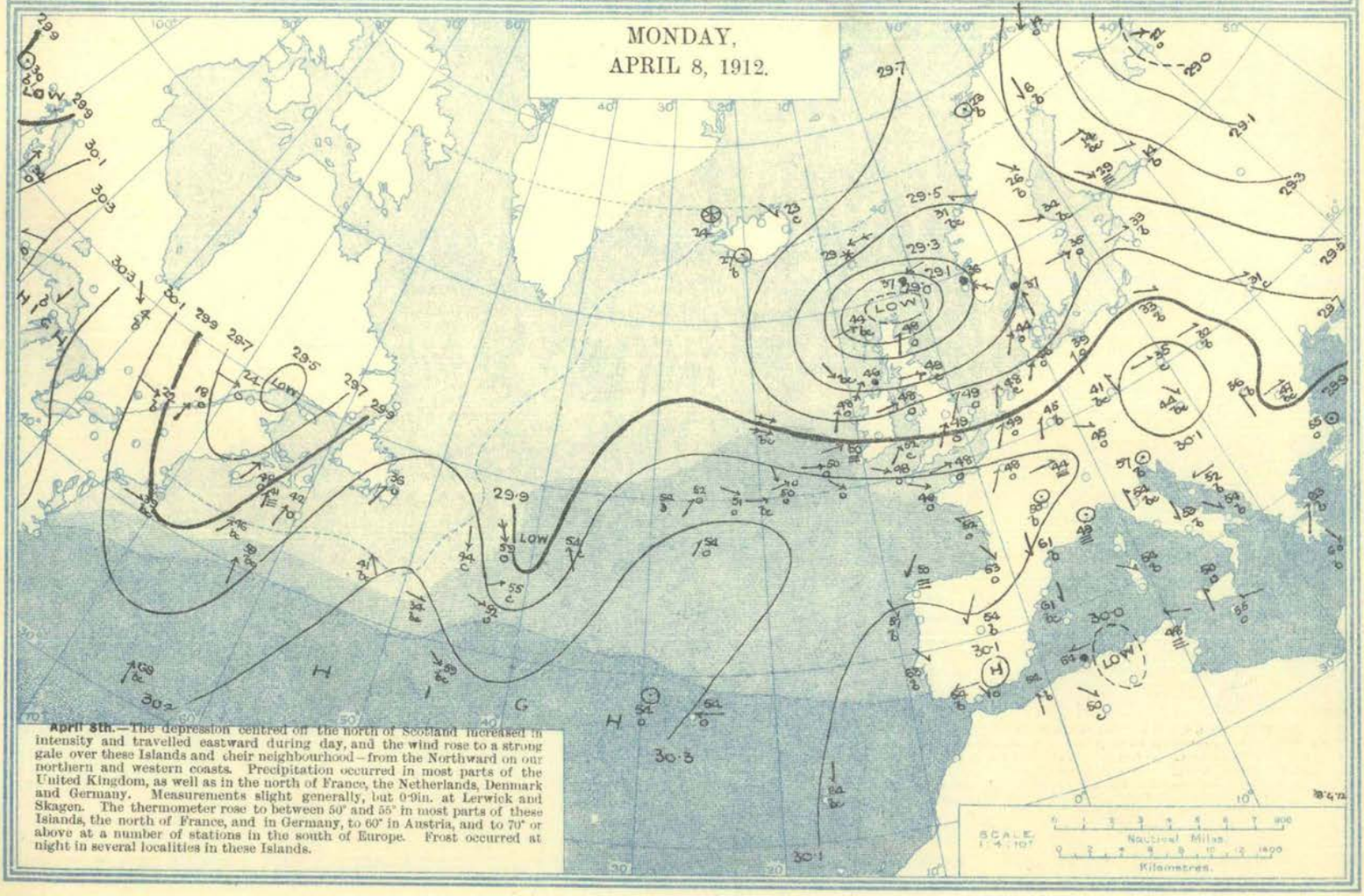
DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	54	25	44·8	32·8	38·5	− 3·4	8	− 15	32	+ 10	6	+ 1	2·11	+1·41	3·1	−1·5	22	−11
Eastern.																		
1. SCOTLAND, EAST ...	60	20	48·2	32·7	40·1	− 2·2	17	− 13	34	+ 11	4	0	0·46	+0·03	5·3	+0·6	39	+ 4
2. ENGLAND, N.E.	59	26	50·6	35·3	42·6	− 0·8	32	+ 5	19	+ 3	3	0	0·10	−0·25	6·2	+1·2	46	+ 9
3. ENGLAND, EAST ...	62	26	51·9	36·6	43·9	− 0·7	36	− 1	15	0	2	− 2	0·15	−0·20	6·9	+1·8	52	+14
4. MIDLAND COUNTIES ...	63	24	52·7	36·3	44·1	− 0·5	39	0	16	− 1	2	− 1	0·16	−0·24	6·5	+1·8	49	+13
5. ENGLAND, S.E.	62	23	52·7	38·2	45·1	− 0·9	38	− 2	11	+ 1	1	− 2	0·05	−0·28	7·0	+1·8	52	+14
Western.																		
6. SCOTLAND, WEST ...	57	24	48·7	36·1	42·1	− 1·6	25	− 5	17	+ 1	4	0	0·41	−0·21	5·0	−0·2	36	− 1
7. ENGLAND, N.W.	60	25	49·9	37·5	43·4	− 1·2	29	− 3	13	+ 1	3	0	0·33	−0·14	6·0	+1·3	45	+10
8. ENGLAND, S.W.	62	25	51·7	40·4	45·8	− 0·2	33	− 5	4	− 4	3	− 1	0·21	−0·29	5·0	−0·3	38	− 2
9. IRELAND, NORTH ...	58	31	50·6	39·2	44·6	− 0·3	30	− 4	8	− 3	4	0	0·34	−0·19	3·7	−1·1	27	− 8
10. IRELAND, SOUTH ...	59	31	52·6	40·9	46·5	+ 0·2	36	− 5	3	− 5	4	0	0·17	−0·40	3·6	−1·7	27	−13
11. ENGLISH CHANNEL ...	57	40	53·5	43·9	48·5	+ 0·3	46	+ 2	0	− 1	4	0	0·17	−0·25	5·6	−0·6	42	− 5
THE SEASON (**Spring**).—Aggregates, &c., for the Period of 5 Weeks, March 3rd to April 13th, 1912.																		
0. SCOTLAND, NORTH ...	56	25	*	*	*	*	101	+ 11	113	− 55	36	+ 7	9·23	+3·72	3·4	−0·2	28	− 2
Eastern.																		
1. SCOTLAND, EAST ...	64	20	*	*	*	*	141	+ 18	132	− 49	29	+ 5	3·22	+0·27	4·0	0·0	33	0
2. ENGLAND, N.E	66	26	*	*	*	*	182	+ 52	80	− 61	23	+ 2	2·31	−0·01	4·0	−0·4	32	− 4
3. ENGLAND, EAST ...	69	26	*	*	*	*	226	+ 56	52	− 96	24	+ 4	2·79	+0·70	4·3	−0·2	35	− 2
4. MIDLAND COUNTIES ...	68	24	*	*	*	*	208	+ 31	73	− 79	23	+ 4	3·58	+1·22	3·8	−0·2	31	− 1
5. ENGLAND, S.E.	66	23	*	*	*	*	222	+ 42	38	− 68	22	+ 4	3·52	+1·26	4·6	+0·2	38	+ 2
Western.																		
6. SCOTLAND, WEST ...	59	24	*	*	*	*	142	+ 17	72	− 60	32	+ 8	5·91	+1·45	3·7	−0·4	30	− 3
7. ENGLAND, N.W.	61	25	*	*	*	*	166	+ 30	58	− 57	26	+ 4	4·48	+1·33	3·7	−0·1	31	− 1
8. ENGLAND, S.W.	62	25	*	*	*	*	198	+ 22	25	− 63	30	+ 8	5·98	+2·53	3·5	−1·0	29	− 8
9. IRELAND, NORTH ...	60	30	*	*	*	*	173	+ 22	62	− 46	31	+ 5	4·15	+0·60	3·3	−0·6	27	− 5
10 IRELAND, SOUTH ...	63	29	*	*	*	*	225	+ 33	35	− 47	33	+10	4·50	+0·65	3·8	−0·6	31	− 5
11. ENGLISH CHANNEL ...	62	35	*	*	*	*	252	+ 43	3	− 26	32	+ 9	5·69	+2·86	4·1	−1·2	33	−10
THE YEAR.—Aggregates, &c., for the Period of 15 Weeks, December 31st, 1911, to April 13th, 1912.																		
0. SCOTLAND, NORTH ...	57	7	*	*	*	*	175	+ 25	409	− 89	80	+ 5	16·80	+0·33	2·3	0·0	23	0
Eastern.																		
1. SCOTLAND, EAST ...	64	−5	*	*	*	*	216	+ 25	475	− 83	72	+13	8·61	+0·67	2·5	−0·3	26	− 3
2. ENGLAND, N.E.	66	10	*	*	*	*	283	+ 73	351	− 91	64	+10	6·81	+1·10	2·4	−0·6	24	− 5
3. ENGLAND, EAST ...	69	14	*	*	*	*	358	+ 98	259	−228	63	+ 9	7·08	+1·62	2·5	−0·6	25	− 6
4. MIDLAND COUNTIES ...	68	9	*	*	*	*	335	+ 54	345	−143	61	+ 9	9·30	+2·76	2·3	−0·4	23	− 4
5. ENGLAND, S.E.	66	13	*	*	*	*	377	+ 79	208	−157	61	+11	9·34	+2·63	2·6	−0·4	26	− 4
Western.																		
6. SCOTLAND, WEST ...	59	12	*	*	*	*	233	+ 19	325	− 69	71	+ 7	14·66	+1·35	2·4	−0·3	23	− 3
7. ENGLAND, N.W.	61	7	*	*	*	*	290	+ 60	289	− 77	65	+ 7	10·32	+1·50	2·5	−0·1	25	− 1
8. ENGLAND, S.W.	62	9	*	*	*	*	376	+ 49	184	−103	76	+18	14·16	+3·71	2·4	−0·7	24	− 6
9. IRELAND, NORTH ...	60	15	*	*	*	*	332	+ 56	233	− 92	65	− 3	10·84	+0·76	2·4	−0·3	24	− 3
10. IRELAND, SOUTH ...	63	13	*	*	*	*	434	+ 56	165	− 82	79	+18	13·35	+1·95	2·7	−0·4	26	− 4
11. ENGLISH CHANNEL ...	62	27	*	*	*	*	573	+145	44	− 64	71	+ 7	12·02	+3·28	2·9	−0·8	28	− 8

NOTES ON TABLE IV.

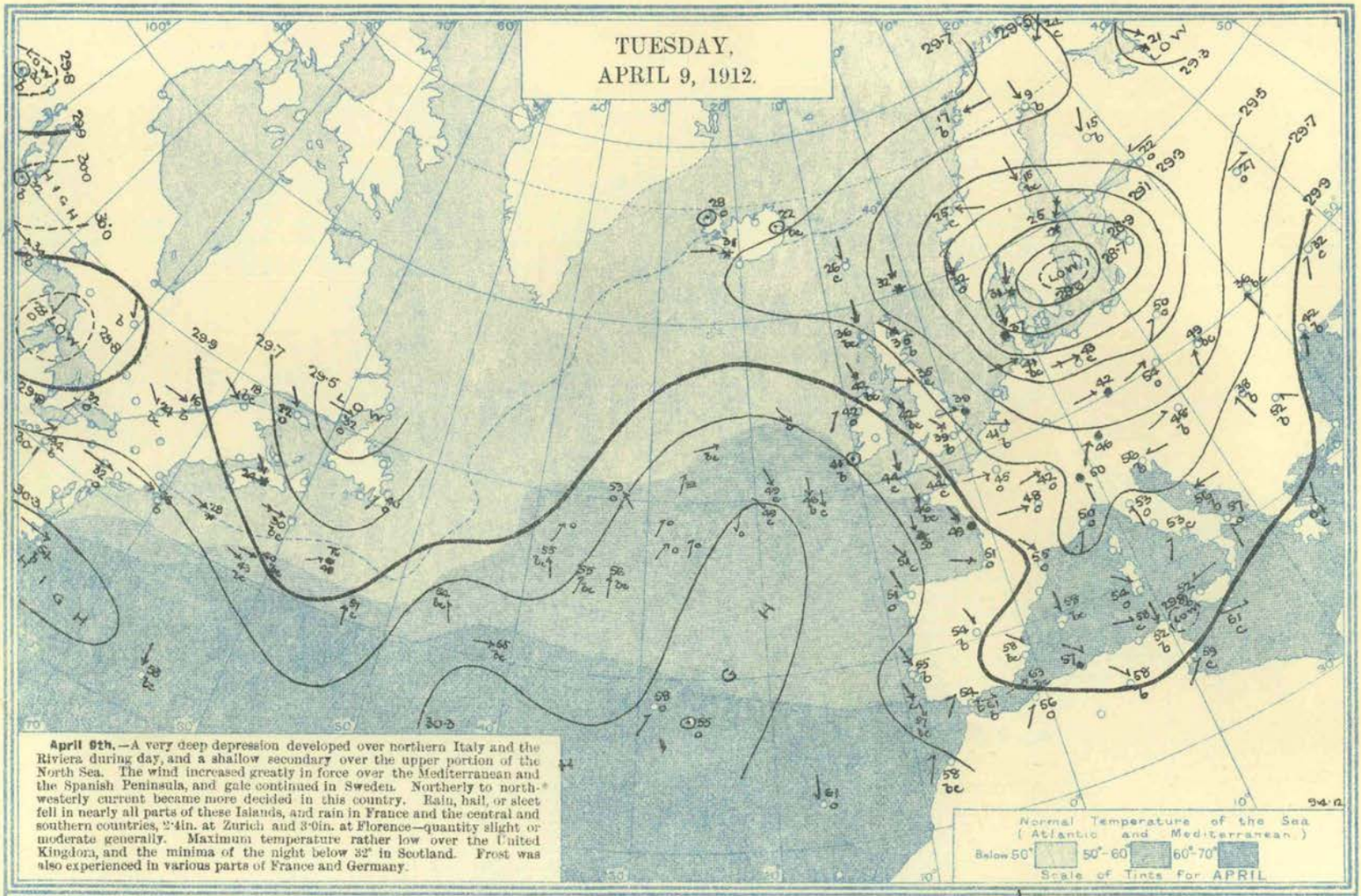
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



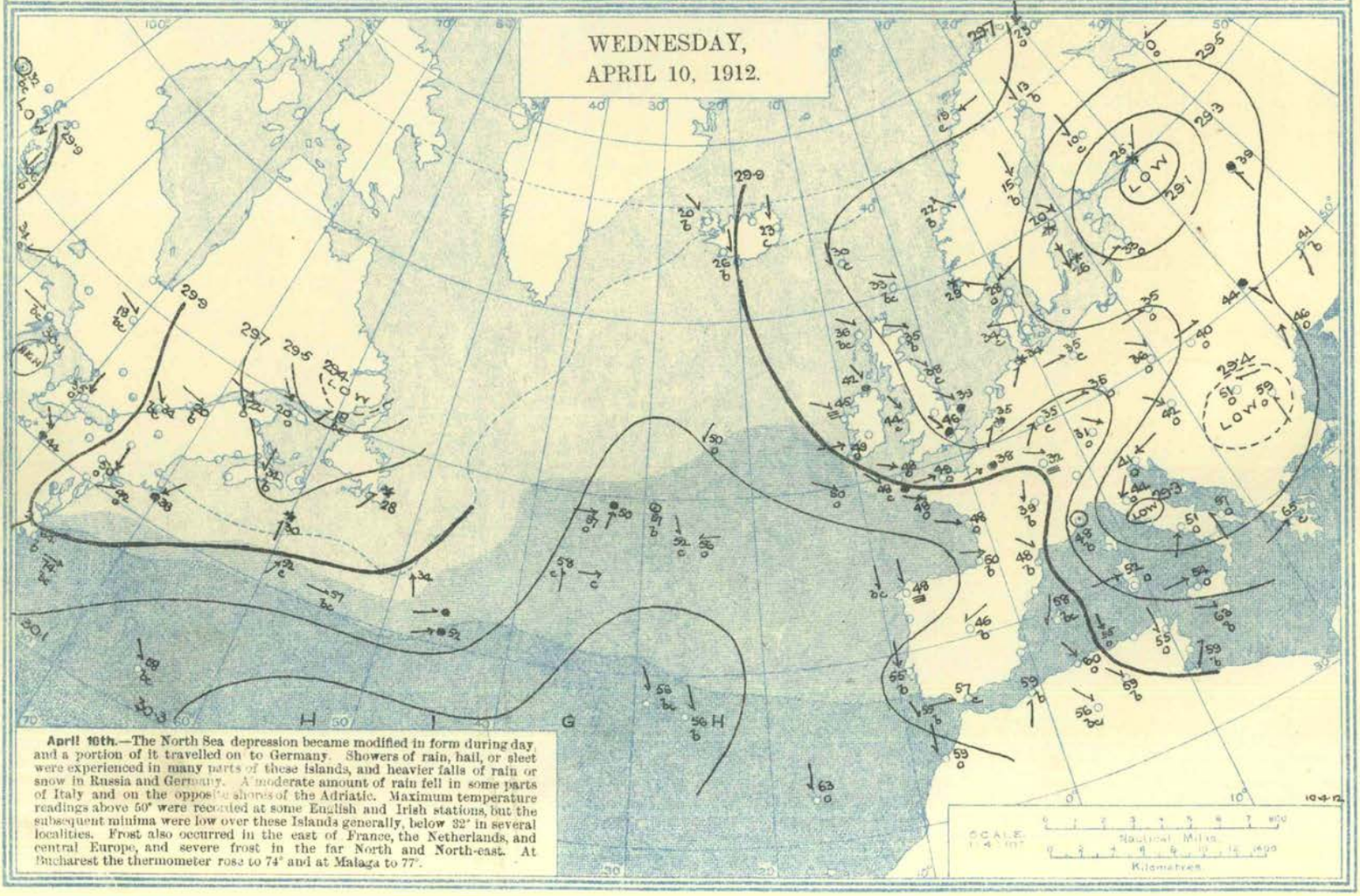
April 7th.—Pressure decreased slowly during day over the United Kingdom and its neighbourhood, but no important change occurred in the distribution. Temperature rose to above 60° in the central and southern counties of England and in most of France, to above 70° at various places in the south of France, the Spanish Peninsula, and at several stations in Italy and south-eastern Europe. Heavy rain was experienced in Scotland, 0·75in. at Wick, and 1·2in. at Stornoway. Slight falls of rain or snow fell in Scandinavia and at a few stations in Russia and central Europe. The wind rose to a gale during night at Stornoway, and to a strong gale at Malin Head and Lerwick. Frost still severe in the far north and north-east of the Continent.



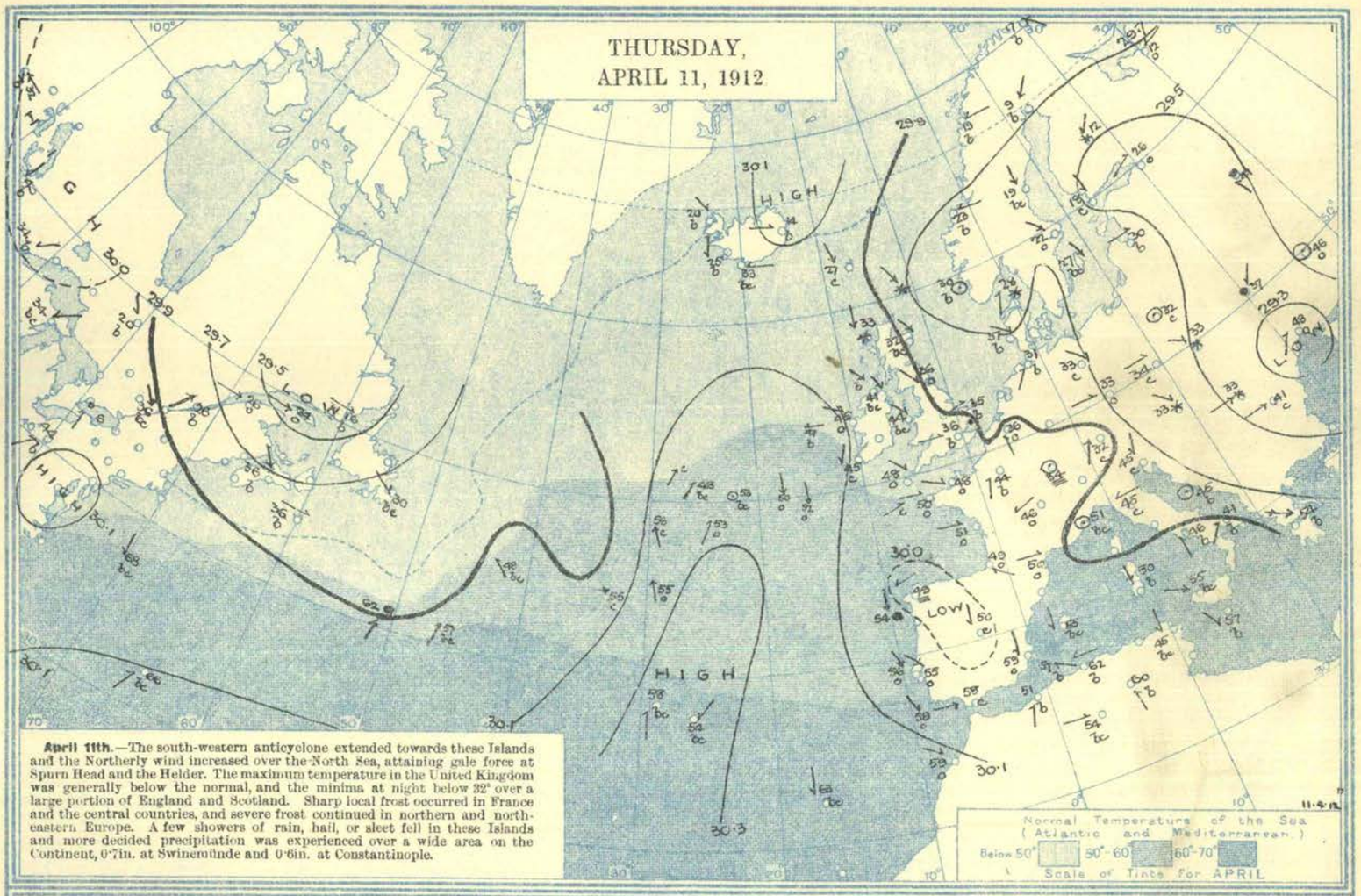
April 8th.—The depression centred off the north of Scotland increased in intensity and travelled eastward during day, and the wind rose to a strong gale over these Islands and their neighbourhood—from the Northward on our northern and western coasts. Precipitation occurred in most parts of the United Kingdom, as well as in the north of France, the Netherlands, Denmark and Germany. Measurements slight generally, but 0·9in. at Lerwick and Skagen. The thermometer rose to between 50° and 55° in most parts of these Islands, the north of France, and in Germany, to 60° in Austria, and to 70° or above at a number of stations in the south of Europe. Frost occurred at night in several localities in these Islands.



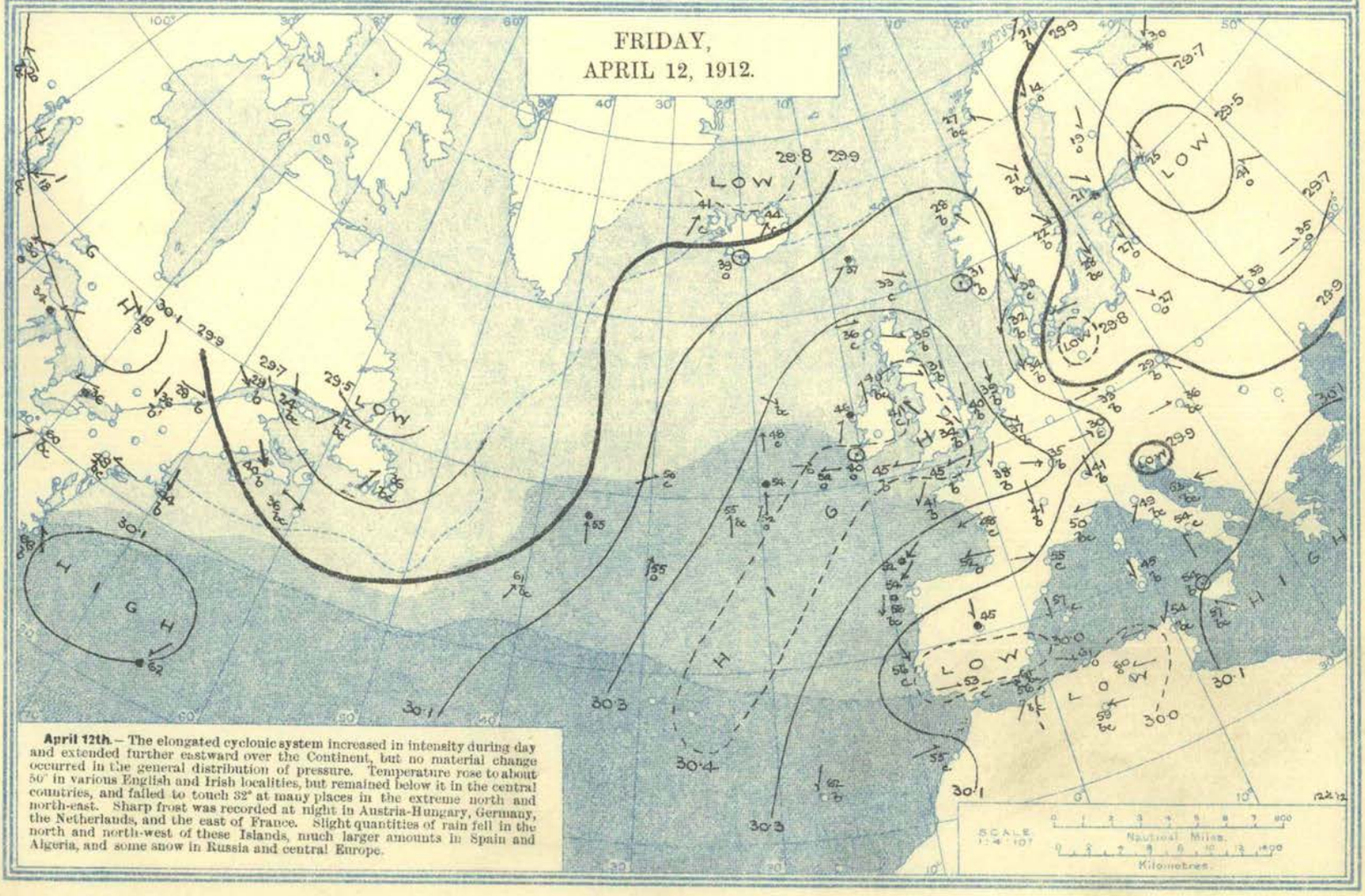
April 9th.—A very deep depression developed over northern Italy and the Riviera during day, and a shallow secondary over the upper portion of the North Sea. The wind increased greatly in force over the Mediterranean and the Spanish Peninsula, and gale continued in Sweden. Northerly to north-westerly current became more decided in this country. Rain, hail, or sleet fell in nearly all parts of these Islands, and rain in France and the central and southern countries, 2·4in. at Zurich and 3·0in. at Florence—quantity slight or moderate generally. Maximum temperature rather low over the United Kingdom, and the minima of the night below 32° in Scotland. Frost was also experienced in various parts of France and Germany.



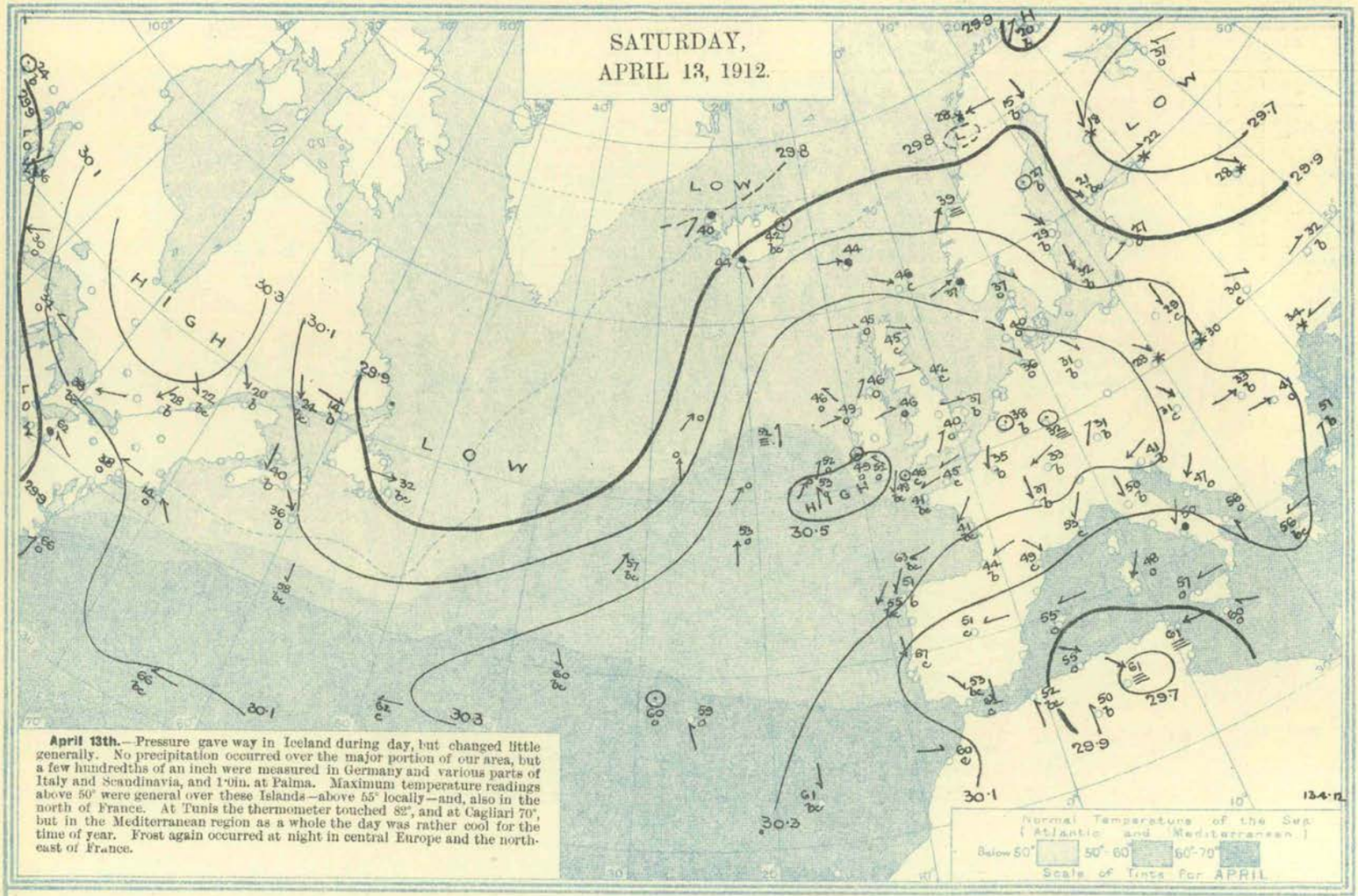
April 10th.—The North Sea depression became modified in form during day, and a portion of it travelled on to Germany. Showers of rain, hail, or sleet were experienced in many parts of these islands, and heavier falls of rain or snow in Russia and Germany. A moderate amount of rain fell in some parts of Italy and on the opposite shores of the Adriatic. Maximum temperature readings above 50° were recorded at some English and Irish stations, but the subsequent minima were low over these Islands generally, below 32° in several localities. Frost also occurred in the east of France, the Netherlands, and central Europe, and severe frost in the far North and North-east. At Bucharest the thermometer rose to 74° and at Malaga to 77°.



April 11th.—The south-western anticyclone extended towards these Islands and the Northerly wind increased over the North Sea, attaining gale force at Spurn Head and the Helder. The maximum temperature in the United Kingdom was generally below the normal, and the minima at night below 32° over a large portion of England and Scotland. Sharp local frost occurred in France and the central countries, and severe frost continued in northern and north-eastern Europe. A few showers of rain, hail, or sleet fell in these Islands and more decided precipitation was experienced over a wide area on the Continent, 0·7in. at Swinemünde and 0·6in. at Constantinople.

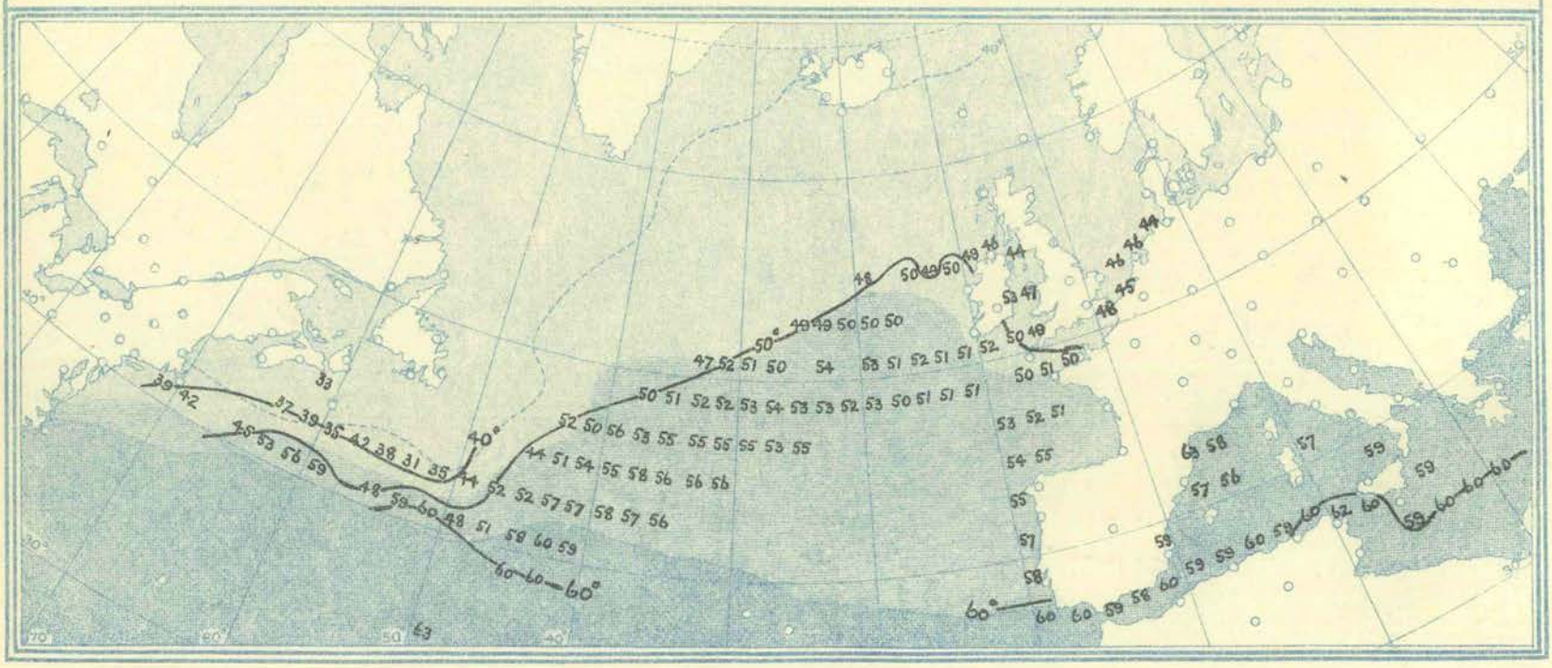


April 12th.—The elongated cyclonic system increased in intensity during day and extended further eastward over the Continent, but no material change occurred in the general distribution of pressure. Temperature rose to about 50° in various English and Irish localities, but remained below it in the central countries, and failed to touch 32° at many places in the extreme north and north-east. Sharp frost was recorded at night in Austria-Hungary, Germany, the Netherlands, and the east of France. Slight quantities of rain fell in the north and north-west of these Islands, much larger amounts in Spain and Algeria, and some snow in Russia and central Europe.



April 13th.—Pressure gave way in Iceland during day, but changed little generally. No precipitation occurred over the major portion of our area, but a few hundredths of an inch were measured in Germany and various parts of Italy and Scandinavia, and 1·0in. at Palma. Maximum temperature readings above 50° were general over these Islands—above 55° locally—and, also in the north of France. At Tunis the thermometer touched 82°, and at Cagliari 70°, but in the Mediterranean region as a whole the day was rather cool for the time of year. Frost again occurred at night in central Europe and the north-east of France.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 13TH. APRIL, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 16. SIXTEENTH WEEK, SUNDAY, APRIL 14TH, TO SATURDAY, APRIL 20TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. Over the United Kingdom generally the conditions were dry and bright, but heavy falls of rain occurred in a few Irish localities on Saturday. A thunderstorm was experienced at Canterbury on Thursday.

Temperature was above the average, the excess amounting to less than 2° in England East, South-East and South-West, but to 4° in Ireland North and to about 5° in Scotland North and East. The highest of the maxima were recorded on rather variable dates,—as a rule towards the end of the week. The values ranged from 71° in the Midland Counties and 70° in England East and North-East to 63° in Ireland North, and to 62° in Scotland West. The lowest of the minima, which occurred on the 17th or 18th in most localities, ranged from 27° in England South-East and South-West to 36° in Ireland North and to 41° in the English Channel. The lowest grass readings reported were 20° at Birmingham, 21° at Rauceby and Wisley, and 22° at Greenwich and Llangammarch Wells. The earth thermometer showed that, in comparison with the average, there was a slight excess of warmth, both at the depth of 1 foot and 4 feet.

Mean Temperature of the Sea. The temperature of the sea water was again higher than during the corresponding week of last year, and was also above the average. The weekly mean ranged from 52° at Newquay and Scilly, and 51° at Seafield to 45° at Aberdeen, and to 44° at Lerwick.

Rainfall. In nearly all parts of England and a large portion of Scotland there was no rain, but a considerable quantity was experienced in Ireland on Friday or Saturday. At Killarney as much as 1·3 in. fell on the 20th. At Canterbury a thunderstorm on the 18th yielded 0·4 in. of rain.

Bright Sunshine exceeded the normal in all districts except Ireland North, the excess being large in England and also in Scotland East. The mean daily duration amounted to 9 or more hours at several stations in England, East and South-East, and the percentage of the possible duration was 57 in England North-East and South-East and 59 in England East. In Scotland North the mean daily duration was only a little over 5 hours, and in Ireland North it was less than 5 hours.

Barometer and Wind. During the greater part of the period the pressure distribution was anticyclonic over the whole Kingdom, but by Thursday the western districts had come under the influence of a large low pressure system on the Atlantic and the wind became Southerly, and increased somewhat in force. The depression subsequently moved Northwards, and had little effect upon the weather over Great Britain, and at the close of the week the Scandinavian high pressure was again extending towards these islands.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 68.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Very Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Light	Nought	Nought	Nought	Nought	Very light	Light	Nought	Nought	Moderate	Moderate	Very light
	Sunshine ...	Abundant	Very abundant	Abundant	Very abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Moderate	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 7 weeks from March 3rd, 1912.	Warmth ...	4 * 1	5 * 0	5 * 0	5 * 0	5 * 0	4 * 0	4 * 1	5 * 0	4 * 0	5 * 0	4 * 0	4 * 0
	Rainfall ...	3 * 2	2 * 1	3 * 4	2 * 3	3 * 4	2 * 3	2 * 1	3 * 1	3 * 2	2 * 1	2 * 1	3 * 2
	Sunshine ...	2 * 1	2 * 1	1 * 3	2 * 2	2 * 2	5 * 2	1 * 1	3 * 2	1 * 3	1 * 4	1 * 3	1 * 3

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(23999—24.) Wt. 173—814. 450. 4/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference (from Average.	Earth 4 ft. Mean.	Difference (from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands .. *p* Baltasound .. S	*50*	*16th*	*42*	*15, 18, 20*	*52·1*	*42·9*	*47·3*	—	*37*	*0*	*	*	44·8	*	*	*	*2*	*0·02*	—	*5·2*	—	*35*	—	*Baltasound.*
a Lerwick	57	16th	39	18th	50·6	41·1	45·6	+ 4·1	29	3	*	*	*	*	*	*	1	0·06	—	5·1	+ 0·1	35	+ 1	Deerness.
a Stornoway	55	19th	38	18th	52·6	42·0	47·1	+ 3·7	36	0	*	*	*	*	*	*	4	0·54	- 0·12	4·2	- 1·2	29	- 8	Stornoway.
a Castlebay, Barra Isd. .	*52*	*19th*	*44*	*18th*	*50·1*	*45·4*	*47·6*	+ *1·7*	*39*	*0*	*	*	*	*	*	*	*3*	*0·86*	—	*4·1*	—	*29*	—	*Castlebay.*
a Wick	61	16th	35	14th	51·7	41·7	46·5	+ 3·2	33	1	*	*	*	*	*	*	0	0·00	- 0·44	*	*	*	*	
b, Main- *p* Strathpeffer ..	65	19th	36	18th	60·3	41·7	50·6	+ 6·9	61	1	*	*	*	*	*	*	0	0·00	- 0·41	6·2	+ 1·3	43	+ 9	Strathpeffer.
land. *p* Glencarron ..	59	16, 19	36	18th	55·3	43·8	49·3	+ 6·8	51	0	*	*	*	*	*	*	3	0·22	- 0·99	*	*	*	*	
p Fort Augustus..	63	16th	36	18, 19	58·9	43·3	50·7	+ 7·0	61	0	*	*	*	*	*	*	1	0·01	- 0·51	5·2	+ 1·3	36	+ 9	Fort Augustus.
p Fort William ..	62	16, 19	37	19th	57·6	43·9	50·4	+ 5·4	59	0	*	*	*	*	*	*	2	0·08	- 0·85	*	*	*	*	
1. SCOTLAND, E.																								
p Gordon Castle.. S	66	16th	36	14, 18	63·1	40·1	51·1	+ 7·1	72	5	2	23	46·0	+2·8	43·6	+1·6	—	—	—	8·0	—	56	—	Crathes S.
a Nairn	65	16th	32	18th	60·7	38·1	48·9	+ 5·0	65	11	*	*	*	*	*	*	0	0·00	- 0·32	8·4	—	59	—	Nairn.
a Aberdeen ..	62	16th	35	14th	55·7	39·7	47·3	+ 3·5	47	6	*	*	*	*	43·5	+1·1	0	0·00	- 0·45	8·0	+ 2·8	56	+20	Aberdeen.
a Balmoral ..	68	16th	29	19th	64·6	32·3	47·7	+ 7·1	81	27	5	26	*	*	*	*	0	0·00	- 0·53	*	*	*	*	Balmoral.
p Crieff	63	16th	33	20th	59·9	38·9	48·9	+ 4·2	61	9	*	*	*	*	*	*	0	0·00	- 0·50	5·5	—	39	—	Balruddery.
a Leith	64	16th	39	19th	57·4	41·6	49·1	+ 3·8	51	1	*	*	*	*	*	*	0	0·00	- 0·28	*	*	*	*	
p West Linton .. S	60	16, 19	28	19th	57·3	35·0	45·6	+ 3·8	55	20	*	*	*	*	*	*	0	0·00	—	*6·3*	—	*45*	—	*West Linton.*
p Marchmont ..	64	15th	28	18th	60·9	37·3	48·5	+ 5·7	65	13	3	25	45·9	+2·9	*	*	0	0·00	- 0·48	7·6	+ 2·8	54	+20	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	66	20th	33	20th	59·0	37·3	47·6	+ 4·0	59	13	4	27	47·2	+4·1	44·3	+1·4	0	0·00	- 0·43	8·7	*	62	*	Cockle Park.
a Shields	60	16, 20	37	17, 18, 19	54·7	39·3	46·6	+ 2·5	44	8	*	*	*	*	*	*	0	0·00	- 0·34	*	*	*	*	
p Durham	64	20th	33	17th	58·7	37·4	47·5	+ 3·7	58	13	2	30	*	*	*	*	0	0·00	- 0·34	8·2	+ 3·7	59	+27	Durham.
a, North .. *p* Rounton	66	20th	32	18th	59·8	38·0	48·4	+ 4·7	62	11	0	31	47·0	*	*	*	0	0·00	- 0·38	*	*	*	*	Rounton.
a West Witton	*65*	*20th*	*30*	*18th*	*59·4*	*37·9*	*48·1*	—	*60*	*11*	2	26	46·2	*	42·8	*	*0*	*0·00*	—	*	*	*	*	*West Witton.*
p Scarborough	60	20th	37	18th	53·9	42·0	47·7	+ 3·2	40	0	*	*	*	*	*	*	0	0·00	- 0·40	7·3	—	52	—	Scarborough.
p York	62	20th	32	18th	61·7	39·6	50·1	+ 4·1	67	7	*	*	47·0	+1·8	45·3	+1·4	0	0·00	- 0·40	7·2	+ 2·6	51	+19	York.
a Spurn Head	56	20th	38	16, 18	51·3	40·4	45·6	+ 0·7	32	4	1	29	46·1	+0·9	45·0	+1·5	1	0·01	- 0·25	*6·3*	—	*45*	—	*Hull.*
b, South .. *a* Lincoln	70	20th	30	18th	61·3	38·0	49·1	+ 2·9	67	11	*	*	47·2	+2·1	45·5	+1·6	1	0·02	- 0·32	*	*	*	*	Lincoln.
a Fulbeck	69	20th	31	18th	61·3	38·4	49·3	+ 3·3	66	10	7	21	49·2	+0·8	46·6	+1·6	0	0·00	- 0·35	7·8	—	56	—	Rauceby.
											*	*	*	*	*	*	—	—	—	9·7	—	69	—	Skegness.
3. ENGLAND, E.											0	34	48·0	+0·7	47·1	+1·6	—	—	—	*9·7*	—	*70*	—	*Lowestoft.*
p Cromer	65	20th	36	16th	55·1	41·0	47·7	+ 3·4	44	3	*	*	*	*	*	*	0	0·00	—	9·0	—	65	—	Cromer.
p Hillington	70	20th	31	16, 18	60·4	34·7	46·9	+ 1·2	65	20	7	24	*	*	*	*	0	0·00	- 0·40	8·5	+ 3·3	61	+24	Hillington.
a, North .. *a* Yarmouth	57	18th	30	18th	52·9	39·3	45·8	+ 1·2	38	8	*	*	49·3	+0·4	48·3	+1·2	0	0·00	- 0·35	*9·7*	—	*70*	—	*Yarmouth.*
a Norwich											*	*	47·4	*	*	*	—	—	—	*9·0*	—	*65*	—	*Norwich.*
p Geldeston	67	19th	28	16th	58·6	35·0	46·2	+ 0·5	59	20	*	*	*	*	*	*	0	0·00	- 0·36	8·6	+ 3·2	62	+23	Geldeston.
p Cambridge	69	20th	30	18th	61·1	35·7	47·8	+ 1·1	67	18	5	25	48·8	+1·1	48·1	+1·8	0	0·00	- 0·35	7·6	+ 2·2	55	+16	Cambridge.
a Felixstowe	*57*	*20th*	*34*	*16th*	*53·7*	*39·0*	*46·0*	+ *0·3*	*41*	*8*	*	*	*	*	*	*	*0*	*0·00*	—	*9·7*	—	*70*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	57	19th	38	16th	53·0	41·7	47·1	+ 1·5	37	1	3	28	48·6	+1·3	48·5	+1·5	0	0·00	—	8·9	—	64	—	Clacton.
a Rothamsted	68	20th	30	18th	60·4	35·0	47·1	+ 1·4	65	20	*	*	*	*	*	*	0	0·00	- 0·37	8·4	+ 3·3	60	+24	Rothamsted.
a Shoeburyness	*61*	*19th*	*35*	*18th*	*55·1*	*38·7*	*46·5*	- *1·1*	*45*	*9*	3	30	50·3	+2·0	*	*	*0*	*0·00*	- *0·25*	*8·2*	—	*59*	—	*Southend.*
p Tottenham	67	20th	36	18th	59·9	40·1	49·5	+ 2·7	60	5	0	31	*	*	48·4	+2·4	0	0·00	—	6·5	—	47	—	Tottenham.
4. MIDLAND COUNTIES.											1	27	46·0	+1·3	44·0	+2·0	—	—	—	*5·3*	—	*38*	—	*Huddersfield.*
a Harrogate	65	20th	30	18th	58·3	38·9	48·1	+ 3·9	56	9	1	28	45·1	+1·5	44·4	+1·1	0	0·00	- 0·43	6·9	—	49	—	Harrogate.
a Bawtry	70	20th	33	16th	61·4	37·0	48·6	+ 2·5	67	14	4	24	47·7	*	46·1	*	0	0·00	- 0·33	6·3	+ 1·8	45	+13	Worksop.
p Buxton	*63*	*20th*	*33*	*16, 17*	*56·0*	*40·7*	*48·0*	+ *5·3*	*47*	*4*	5	24	45·6	+1·2	44·3	+2·0	*0*	*0·00*	- *0·68*	*6·1*	—	*44*	—	*Buxton.*
a East .. *a* Nottingham	68	20th	28	16th	60·0	34·3	46·5	+ 0·5	64	22	3	28	46·9	+1·5	45·2	+1·9	0	0·00	- 0·36	5·9	—	42	—	Nottingham.
p Birmingham, Edgbsn.	66	20th	37	16, 17, 18	59·1	39·4	48·8	+ 2·9	59	7	5	20	45·4	+1·4	45·8	+1·7	0	0·00	- 0·42	6·0	—	43	—	Birmingham.
a Raunds	71	20th	30	16, 18	62·6	34·7	48·0	+ 2·3	73	20	5	23	46·4	—	46·6	—	0	0·00	—	*	*	*	*	Raunds.
a Oxford	70	20th	34	18th	60·9	38·3	49·1	+ 2·2	65	10	5	26	*	*	*	*	0	0·00	- 0·34	7·6	+ 2·5	55	+18	Oxford.
											0	31	46·3	+2·1	44·7	+2·0	—	—	—	6·2	—	44	—	Sheffield.
a Cheadle	66	20th	34	16th	58·6	39·1	48·4	+ 3·5	57	8	3	29	*	*	*	*	0	0·00	- 0·46	*	*	*	*	Cheadle.
p Shrewsbury	63	20th	31	17th	60·3	36·1	47·6	+ 0·6	64	17	1	29	*	*	*	*	0	0·00	—	*	*	*	*	Shrewsbury.
b, West .. *a* Hereford	65	20th	31	17th	59·3	36·0	47·1	+ 0·2	61	17	6	25	*	*	*	*	0	0·00	- 0·40	*	*	*	*	Hereford.
a Cirencester	67	20th	29	18th	59·1	35·7	46·8	+ 1·4	60	18	1	28	47·4	*	46·7	*	0	0·00	- 0·41	7·6	+ 2·3	55	+16	Cirencester.
a Bath	66	20th	32	18th	60·9	37·1	48·4	+ 1·4	65	14	*	*	49·5	+1·4	48·5	+1·4	0	0·00	- 0·45	7·2	—	52	—	Bath.
5. ENGLAND, S.E.											3	28	49·7	+2·8	49·8	+3·4	—	—	—	*	*	*	*	Canterbury.
p Kew	69	20th	36	18th	59·9	40·3	49·6	+ 2·4	60	5	5	25	48·4	+1·3	48·1	+2·4	0	0·00	- 0·33	6·5	+ 1·4	47	+10	Kew.
a Marlborough	66	20th	27	18th	59·1	32·4	45·1	- 0·6	62	27	6	23	*	*	*	*	0	0·00	- 0·45	5·6	+ 0·8	40	+ 6	Marlborough.
a Margate	67	19th	39	18th	58·6	42·3	50·1	+ 3·3	57	0	—	—	46·3	-0·5	46·9	+1·5	1	0·04	- 0·26	6·2	+ 0·9	45	+ 7	Margate.
a Wisley, Surrey ..	66	19th	33	16th	60·0	37·3	48·1	+ 0·1	62	13	6	21	48·4	+1·5	48·0	+2·1	0	0·00	—	7·2	—	52	—	Wisley
a Swarraton	68	20th	29	18th	60·9	34·0	46·8	+ 0·8	67	22	0	31	49·3	+1·1	48·8	+2·4	0	0·00	- 0·44	9·5	—	68	—	Worthing.
a Tunbridge Wells ..	69	20th	36	14, 16	60·1	38·4	48·7	+ 2·5	62	10	4	28	47·3	+0·1	*	*	1	0·03	- 0·35	8·9	+ 3·4	64	+25	Tunbridge Wells.
a Dungeness	60	19th	38	14th	55·7	42·4	48·7	+ 2·4	47	0	*	*	*	*	*	*	0	0·00	- 0·30	9·2	—	66	—	Littlestone.
p Hastings..	63	20th	38	16th	56·6	42·3	49·1	+ 2·3	50	0	0	34	49·0	*	48·3	*	0	0·00	- 0·37	*9·6*	+ *3·7*	*69*	+ *27*	*Hastings.*
p Southampton	65	20th	35	18th	60·4	39·4	49·4	+ 0·7	63	7	2	29	*	*	*	*	0	0·00	- 0·42	8·1	+ 2·4	58	+18	Southampton.
a Ventnor	63	20th	40	18, 19	56·3	42·3	49·0	+ 0·8	49	0	*	*	*	*	*	*	0	0·00	- 0·39	9·5	+ 3·4	69	+25	Ventnor.
											2	28	49·9	+0·9	49·7	+1·8	—	—	—	*9·6*	—	*69*	—	*Portsmouth.*
											*	*	49·7	*	49·7	*	—	—	—	8·8	+ 3·0	63	+21	Eastbourne.
											*	*	47·9	*	48·4	*	—	—	—	*9·1*	—	*66*	—	*Bournemouth.*
LONDON.											0	32	*	*	48·5	*	—	—	—	*9·0*	+ *3·2*	*65*	+*23*	*Brighton.*
a Westminster	*65*	*18, 19, 20*	*40*	*16th*	*60·1*	*42·7*	*51·0*	+ *3·7*	*63*	*0*	0	34	*	*	*	*	*0*	*0·00*	- *0·32*	*6·3*	+ *2·4*	*45*	+*17*	*Westminster.*
a Greenwich	*70*	*19, 20*	*33*	*18th*	*62·4*	*38·3*	*49·8*	+ *2·5*	*70*	*10*	5	22	*	*	*	*	*0*	*0·00*	- *0·32*	*7·0*	+ *2·0*	*50*	+*15*	*Greenwich.*
a Hampstead	*67*	*20th*	*37*	*15, 16, 20*	*58·0*	*40·3*	*48·7*	—	*54*	*5*	2	27	*	*	*	*	*0*	*0·00*	—	*7·3*	—	*53*	—	*Hampstead.*
a Camden Square ..	*68*	*19th*	*36*	*16, 18*	*62·9*	*39·6*	*50·7*	—	*71*	*7*	0	31	*	*	*	*	*0*	*0·00*	—	*6·5*	—	*47*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	60	16th	39	18th	56·1	44·4	50·0	+ 4·8	56	0	*	*	*	*	*	*	3	0·39	- 0·20	*	*	*	*	
p Glasgow	62	16th	39	19th	48·1	43·7	45·8	+ 0·9	27	0	0	37	*	*	*	*	0	0·00	- 0·47	4·1	- 0·2	29	- 2	Glasgow.
p Rothesay .. S	61	15, 16, 19	38	14th	58·3	42·1	49·8	+ 4·3	55	0	*	*	*	*	45·3	+1·2	2	0·20	- 0·45	*	*	*	*	
a Kilmarnock	62	16th	35	18th	59·3	41·3	49·9	+ 5·0	58	2	*	*	*	*	*	*	0	0·00	—	*5·5*	—	*39*	—	*Kilmarnock.*
a Colmonell	62	15th	34	14th	59·1	42·1	50·2	+ 5·0	57	0	0	32	*	*	*	*	1	0·03	- 0·52	*	*	*	*	
p Dumfries	61	19, 20	35	18th	59·1	39·7	48·9	+ 3·4	58	6	5	28	47·0	*	45·3	*	0	0·00	- 0·52	*5·2*	—	*37*	—	*Dumfries.*
p Cally, Gatehouse	60	19th	34	19th	57·9	38·0	47·5	+ 2·7	55	11	*	*	*	*	*	*	0	0·00	- 0·70	*	*	*	*	
b I. OF MAN.																								
p Douglas	58	15th	41	18th	55·1	43·9	49·2	+ 4·1	50	0	0	34	*	*	*	*	0	0·00	- 0·58	7·0	+ 0·9	50	+ 6	Douglas.
											4	25	45·0	+1·2	43·9	+1·7	—	—	—	*6·2*	—	*44*	—	*Burnley.*
											0	31	*	*	*	*	—	—	—	8·1	—	58	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	62	20th	32	18th	58·7	40·0	48·9	+ 4·5	57	6	4	28	47·7	*	45·2	*	0	0·00	- 0·51	6·3	—	45	—	Aspatria.
p Newton Rigg	61	16th	31	18th	58·6	36·6	47·1	+ 3·4	58	15	5	23	46·9	+2·4	44·1	+1·3	0	0·00	- 0·50	6·5	+ 1·4	46	+10	Newton Rigg.
p Stonyhurst	63	20th	36	17th	57·4	40·0	48·3	+ 3·6	53	6	2	30	*	*	*	*	0	0·00	- 0·63	6·7	+ 1·6	48	+12	Stonyhurst.
p Blackpool	64	20th	33	19th	58·0	38·7	47·9	+ 2·3	55	9	*	*	*	*	*	*	0	0·00	- 0·43	8·2	+ 2·9	59	+21	Blackpool.
p Manchester, Prestwich											*	*	*	*	*	*	—	—	—	*	*	*	*	*Prestwich.*
a Liverpool (Bidston) ..	65	20th	39	17th	58·1	41·7	49·5	+ 3·7	54	1	*	*	*	*	*	*	0	0·00	- 0·38	*7·3*	—	*52*	—	*Liverpool.*
a Hawarden Bridge ..	64	19th	33	20th	57·9	40·0	48·5	+ 1·3	54	6	4	27	49·0	+1·8	47·0	+1·4	0	0·00	- 0·30	*8·0*	+ *2·5*	*57*	+*18*	*Southport.*
											0	35	45·5	+1·1	46·0	+1·6	—	—	—	*6·1*	—	*44*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	68	20th	40	18, 19	61·6	42·4	51·5	+ 4·7	67	0	*	*	*	*	*	*	0	0·00	- 0·41	7·6	+ 2·3	54	+17	Llandudno.
a Holyhead	59	16th	41	19th	56·6	43·7	49·8	+ 3·6	55	0	*	*	*	*	*	*	0	0·00	- 0·46	7·3	—	53	—	Aberdovey.
p Bettws-y-Coed ..	64	16, 20	34	19th	60·3	38·4	48·8	+ 2·4	63	10	0	31	47·4	+2·7	46·3	+1·7	0	0·00	—	6·1	—	44	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	*	*	*	6·5	—	47	—	Aberystwyth.
a Llangammarch Wells	63	20th	27	18, 19	58·0	32·0	44·4	− 0·4	59	28	?5	22	46·0	+0·6	46·1	+1·5	1	0·01	—	6·4	—	46	—	Llangammarch
a Pembroke	57	15th	40	17, 18, 19	53·9	43·1	48·2	+ 1·9	43	0	*	*	*	*	*	*	0	0·00	− 0·46	6·0	0·0	43	0	Pembroke.[Wells
p Cardiff	63	20th	37	17, 18, 20	58·6	39·6	48·6	+ 0·4	56	7	3	28	49·2	+2·6	47·7	+2·6	1	0·01	− 0·56	*6·7*	—	*48*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	65	20th	38	17, 18	60·1	41·1	50·1	+ 2·3	60	3	0	33	*	*	*	*	1	0·01	− 0·51	*6·7*	—	*48*	—	*Clifton.*
a Shaftesbury	64	20th	35	16, 17	57·9	40·3	48·7	+ 3·0	54	5	*	*	48·6	*	*	*	0	0·00	− 0·53	*	*	*	*	Shaftesbury.
a Arlington	60	20th	35	18th	57·0	38·7	47·4	+ 1·7	52	9	*	*	50·6	*	*	*	1	0·01	− 0·67	6·9	+ 1·1	50	+ 8	Newquay.
a Cullompton	65	18, 20	30	18th	61·6	35·9	48·1	+ 1·0	68	17	4	25	50·8	*	*	*	0	0·00	− 0·51	6·7	+ 1·5	48	+11	Cullompton.
a Portland	57	18, 19, 20	42	17th	55·1	44·0	49·3	+ 2·0	51	0	*	*	*	*	*	*	0	0·00	—	*8·2*	—	*60*	—	*Weymouth.*
p Plymouth	60	15th	35	18th	57·1	42·5	49·5	+ 1·4	53	0	1	28	51·1	+2·2	*	*	0	0·00	− 0·52	6·5	+ 0·8	47	+ 6	Plymouth.
p Falmouth	57	15th	41	19th	54·0	45·1	49·3	+ 1·6	51	0	*	*	*	*	*	*	0	0·00	− 0·60	6·0	− 0·1	44	− 1	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	60	15, 19	40	19th	57·7	44·1	50·6	+ 5·3	60	0	*	*	*	*	*	*	1	0·89	+ 0·46	*	*	*	*	* *
a Blacksod Point ..	56	19th	45	18th	53·0	47·0	49·9	+ 3·0	55	0	*	*	*	*	*	*	1	0·06	− 0·60	*	*	*	*	* *
p Markree Castle ..	61	14th	38	18th	58·3	42·9	50·2	+ 4·7	57	0	0	35	50·0	*	46·8	*	1	0·79	+ 0·21	3·3	− 1·6	24	−12	Markree Castle.
a Birr Castle	63	15th	38	18th	59·1	40·6	49·4	+ 3·1	58	4	*	*	*	*	*	*	1	0·63	+ 0·15	*5·1*	*0·0*	*37*	*0*	*Birr Castle.*
b, East .. { *p* Armagh	61	15, 16	36	18th	58·6	43·9	50·9	+ 5·2	62	0	1	28	49·6	+3·5	46·7	+1·2	1	0·57	+ 0·09	5·9	+ 1·0	42	+ 7	Armagh.
a Donaghadee	61	15th	37	18th	56·3	42·6	49·1	+ 3·6	50	0	*	*	*	*	*	*	0	0·00	− 0·46	*	*	*	*	* *
											3	28	49·2	+2·0	47·9	+1·5	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	26	*	*	*	*	—	—	—	5·7	+ 0·2	41	+ 2	Phœnix Park.
a, East .. { *p* Dublin, City	62	15, 16	39	18th	58·6	44·3	51·1	+ 3·3	54	0	0	35	*	*	*	*	1	0·10	− 0·32	*	*	*	*	Dublin City.
a Kilkenny	63	15th	34	16th	58·4	39·9	48·7	+ 2·2	56	6	*	*	*	*	*	*	2	0·37	− 0·13	*	*	*	*	* *
a Waterford	61	14th	34	18th	57·7	39·0	47·9	+ 1·3	54	8	*	*	*	*	*	*	2	0·69	+ 0·12	*	*	*	*	* *
a Birr Castle	63	15th	38	18th	59·1	40·6	49·4	+ 3·1	58	4	*	*	*	*	*	*	1	0·63	+ 0·15	5·1	0·0	37	0	Birr Castle.
a Foynes	61	16th	39	16th	57·3	42·3	49·4	+ 2·0	52	0	*	*	*	*	*	*	2	0·76	+ 0·21	*	*	*	*	* *
b, West .. { *a* Cahir	64	15th	34	18th	58·7	40·3	49·1	+ 3·1	57	5	*	*	*	*	*	*	2	0·84	—	*	*	*	*	* *
a Killarney	63	15th	39	14th	57·7	45·1	51·1	+ 3·9	64	0	*	*	*	*	*	*	2	1·55	+ 0·78	*	*	*	*	* *
a Valencia	57	14, 15, 16	42	14th	55·1	45·9	50·3	+ 2·2	58	0	*	*	*	*	*	*	3	0·89	0·00	4·9	− 0·4	35	− 3	Valencia.
a Roche's Point	57	14th	39	15th	54·4	44·1	49·0	+ 1·2	49	0	*	*	*	*	*	*	2	0·23	− 0·40	7·4	—	53	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	57	15th	42	18th	56·1	44·6	50·1	+ 1·4	57	0	*	*	*	*	*	*	1	0·02	− 0·42	6·8	+ 0·8	50	+ 6	Scilly.
a Jersey, St. Aubins ..	65	20th	41	14th	60·7	43·6	51·7	+ 2·7	68	0	*	*	*	*	*	*	0	0·00	− 0·48	10·7	+ 4·3	78	+31	St. Heliers.
a Guernsey (Villa Carey)	65	20th	41	14th	59·9	44·4	51·8	+ 3·0	69	0	0	32	51·2	+2·2	49·9	+1·7	0	0·00	− 0·55	10·1	+ 3·5	74	+26	Guernsey.*

Additional Sunshine Means:—*Bognor, 9·2 hrs. 66 °/₀ : Newcastle (Pendower), hrs. °/₀ ; Ramsgate, 8·3 hrs. 60 °/₀ ; Rhyl, 7·9 hrs. 56 °/₀ ; Salcombe, 5·8 hrs. 42 °/₀ ; Tenby, 6·3 hrs. (+0·1) 45 °/₀ (+ 1 °/₀) ; Torquay, 6·5 hrs. (+0·5) 47 °/₀ (+4 °/₀).*

The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, April 20th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	45	43	44·1	+0·1	SCOTLAND, W. ..	{ Lamlash	49	45	46·8	+1·4
	{ Kirkwall	47	47	47·0	+3·3		{ Ballantrae	55	48	51·5	+6·5
	{ Wick	46	45	45·7	+1·4	ENGLAND, N.W. ..	Port Erin	52	47	47·6	+2·0
SCOTLAND, E. ..	{ Cromarty	48	44	46·5	+4·0	ENGLAND, S.W. ..	{ Newquay	52	51	51·9	+3·0
	{ Pennan Bay	47	43	46·1	+2·6		{ Scilly	53	51	52·1	—
	{ Aberdeen, Cove Bay	46	44	45·0	+1·4		{ Plymouth‡	—	—	—	—
ENGLAND, N.E. ..	{ Burnmouth, Berwick	43	42	42·9	—		{ Salcombe	50	48	49·4	+1·9
	{ Scarborough	51	44	47·5	+3·7	IRELAND, N.W. ..	{ Sheephaven	50	46	47·4	0·0
ENGLAND, E. ..	{ Shipwash Lightship	50	46	47·8	+3·4		{ Teelin	50	47	48·7	+0·4
ENGLAND, S.E. ..	{ Margate‡	51	48	49·6	+2·4	IRELAND, S.W. ..	{ Cleggan	50	47	49·0	+1·3
	{ Eastbourne‡	50	48	48·7	+2·1		{ Seafield	52	50	51·0	—
						IRELAND, E.		—	—	—	—
							.. ..				

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SIXTEENTH WEEK—April 14th to April 20th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of: Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees: Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	65	35	55·3	42·5	48·6	+ 5·3	46	+ 18	0	− 17	2	− 2	0·13	−0·50	5·2	+0·4	36	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	68	28	60·0	37·9	48·4	+ 4·7	62	+ 28	11	− 7	0	− 3	0·00	−0·43	7·5	+2·7	52	+19
2. ENGLAND, N.E.	70	30	58·0	38·9	48·0	+ 3·5	55	+ 23	9	− 3	0	− 4	0·00	−0·36	8·2	+3·2	58	+23
3. ENGLAND, EAST ...	70	28	57·7	37·8	47·3	+ 1·5	55	+ 13	12	0	0	− 3	0·00	−0·36	8·2	+3·0	59	+21
4. MIDLAND COUNTIES ...	71	28	60·0	37·0	47·9	+ 2·1	62	+ 19	14	+ 1	0	− 3	0·00	−0·40	6·7	+1·9	48	+14
5. ENGLAND, S.E.	69	27	58·8	39·1	48·5	+ 1·5	58	+ 13	8	+ 1	1	− 2	0·01	−0·39	8·0	+2·6	57	+19
Western.																		
6. SCOTLAND, WEST ...	62	34	56·6	41·9	48·9	+ 3·8	49	+ 13	0	− 11	1	− 2	0·08	−0·53	5·6	+0·4	39	+ 3
7. ENGLAND, N.W.	68	31	58·6	40·2	48·9	+ 3·1	56	+ 19	5	− 3	0	− 3	0·00	−0·45	7·1	+2·0	51	+14
8. ENGLAND, S.W.	65	27	57·3	40·2	48·4	+ 1·5	52	+ 9	5	− 1	0	− 3	0·00	−0·54	6·4	+0·9	46	+ 7
9. IRELAND, NORTH ...	63	36	57·2	43·5	50·0	+ 4·1	56	+ 18	0	− 8	1	− 3	0·49	−0·04	4·6	−0·2	33	− 2
10. IRELAND, SOUTH ...	64	34	57·4	42·4	49·6	+ 2·3	53	+ 9	0	− 5	2	− 2	0·67	+0·07	5·8	+0·5	42	+ 4
11. ENGLISH CHANNEL ...	65	41	58·9	44·2	51·2	+ 2·3	64	+ 15	0	− 1	1	− 3	0·01	−0·46	9·2	+2·8	67	+21

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 7 Weeks, March 3rd to April 20th, 1912.

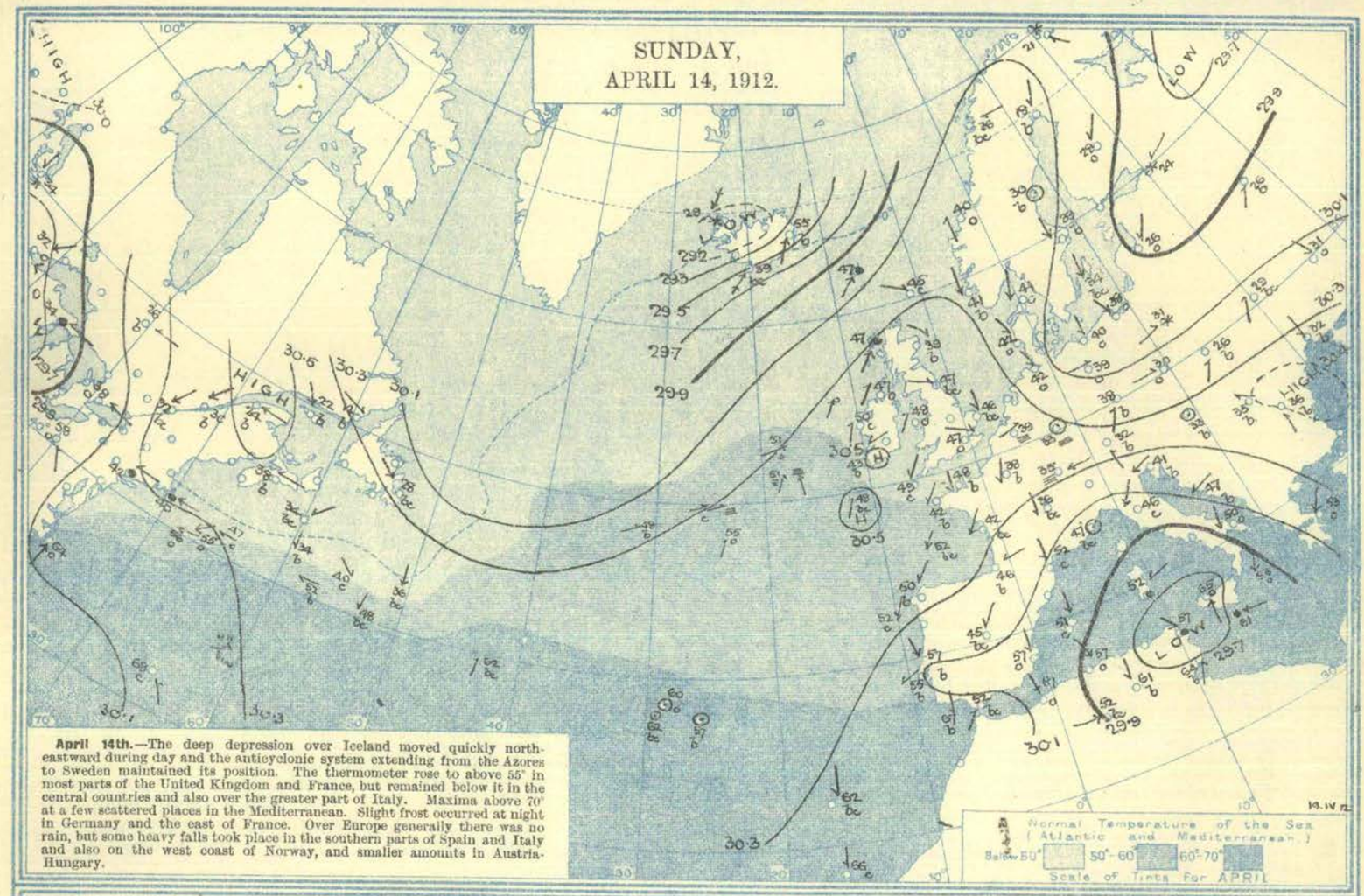
0. SCOTLAND, NORTH ...	65	25	*	*	*	*	147	+ 29	113	− 72	38	+ 5	9·36	+3·22	3·6	−0·2	29	− 1
Eastern.																		
1. SCOTLAND, EAST ...	68	20	*	*	*	*	203	+ 46	143	− 56	29	+ 2	3·22	−0·16	4·5	+0·4	36	+ 3
2. ENGLAND, N.E	70	26	*	*	*	*	237	+ 75	89	− 64	23	− 2	2·31	−0·37	4·6	+0·1	36	+ 1
3. ENGLAND, EAST ...	70	26	*	*	*	*	281	+ 69	64	− 96	24	+ 1	2·79	+0·34	4·8	+0·2	39	+ 2
4. MIDLAND COUNTIES ...	71	24	*	*	*	*	270	+ 50	87	− 78	23	+ 1	3·58	+0·82	4·3	+0·2	34	+ 1
5. ENGLAND, S.E.	69	23	*	*	*	*	280	+ 55	46	− 67	23	+ 2	3·53	+0·87	5·1	+0·6	41	+ 4
Western.																		
6. SCOTLAND, WEST ...	62	24	*	*	*	*	191	+ 30	72	− 71	33	+ 6	5·99	+0·92	4·0	−0·3	32	− 2
7. ENGLAND, N.W.	68	25	*	*	*	*	222	+ 49	63	− 60	26	+ 1	4·48	+0·88	4·2	+0·2	34	+ 2
8. ENGLAND, S.W.	65	25	*	*	*	*	250	+ 31	30	− 64	30	+ 5	5·98	+1·99	4·0	−0·6	32	− 5
9. IRELAND, NORTH ...	63	30	*	*	*	*	229	+ 40	62	− 54	32	+ 2	4·64	+0·56	3·5	−0·5	28	− 4
10 IRELAND, SOUTH ...	64	29	*	*	*	*	278	+ 42	35	− 52	35	+ 8	5·17	+0·72	4·1	−0·4	33	− 4
11. ENGLISH CHANNEL ...	65	35	*	*	*	*	316	+ 58	3	− 27	33	+ 6	5·70	+2·40	4·8	−0·7	39	− 5

THE YEAR.—Aggregates, &c., for the Period of 16 Weeks, December 31st, 1911, to April 20th, 1912.

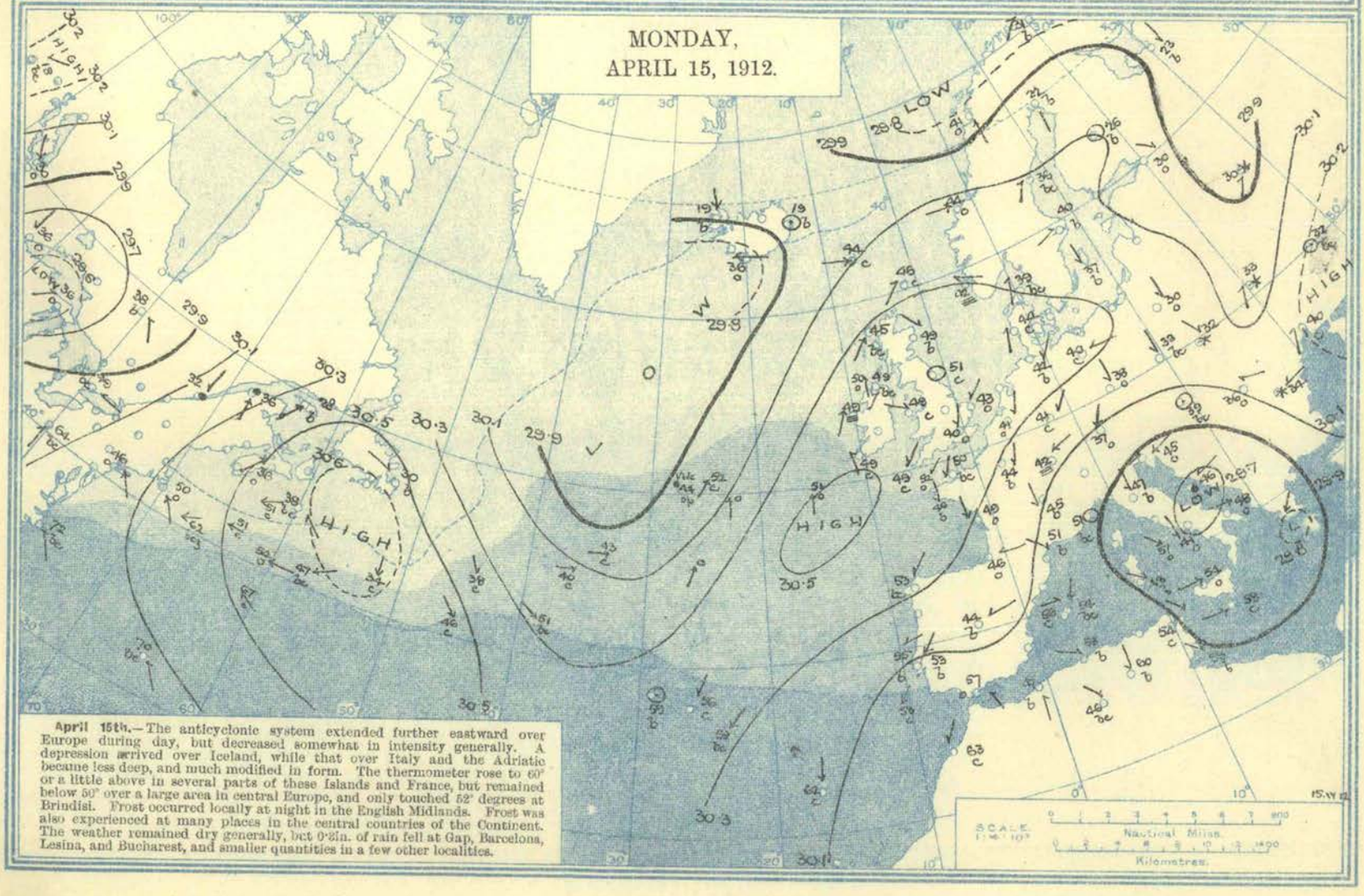
0. SCOTLAND, NORTH ...	65	7	*	*	*	*	221	+ 43	409	−106	82	+ 3	16·93	−0·17	2·5	+0·1	24	0
Eastern.																		
1. SCOTLAND, EAST ...	68	−5	*	*	*	*	278	+ 53	486	− 90	72	+10	8·61	+0·24	2·8	−0·1	28	− 1
2. ENGLAND, N.E.	70	10	*	*	*	*	338	+ 96	360	− 94	64	+ 6	6·81	+0·74	2·8	−0·3	27	− 3
3. ENGLAND, EAST ...	70	14	*	*	*	*	413	+111	271	−228	63	+ 6	7·08	+1·26	2·9	−0·3	28	− 3
4. MIDLAND COUNTIES ...	71	9	*	*	*	*	397	+ 73	359	−142	61	+ 6	9·30	+2·36	2·6	−0·3	25	− 3
5. ENGLAND, S.E.	69	13	*	*	*	*	435	+ 92	216	−156	62	+ 9	9·35	+2·24	3·0	−0·2	28	− 2
Western.																		
6. SCOTLAND, WEST ...	62	12	*	*	*	*	282	+ 32	325	− 80	72	+ 5	14·74	+0·82	2·6	−0·2	25	− 3
7. ENGLAND, N.W.	68	7	*	*	*	*	346	+ 79	294	− 80	65	+ 4	10·32	+1·05	2·8	0·0	27	0
8. ENGLAND, S.W.	65	9	*	*	*	*	428	+ 58	189	−104	76	+15	14·16	+3·17	2·6	−0·6	26	− 5
9. IRELAND, NORTH ...	63	15	*	*	*	*	388	+ 74	233	−100	66	− 6	11·33	+0·72	2·6	−0·2	25	− 3
10. IRELAND, SOUTH ...	64	13	*	*	*	*	487	+ 65	165	− 87	81	+16	14·02	+2·02	2·9	−0·3	28	− 3
11. ENGLISH CHANNEL ...	65	27	*	*	*	*	637	+160	44	− 65	72	+ 4	12·03	+2·82	3·3	−0·6	32	− 5

NOTES ON TABLE IV.

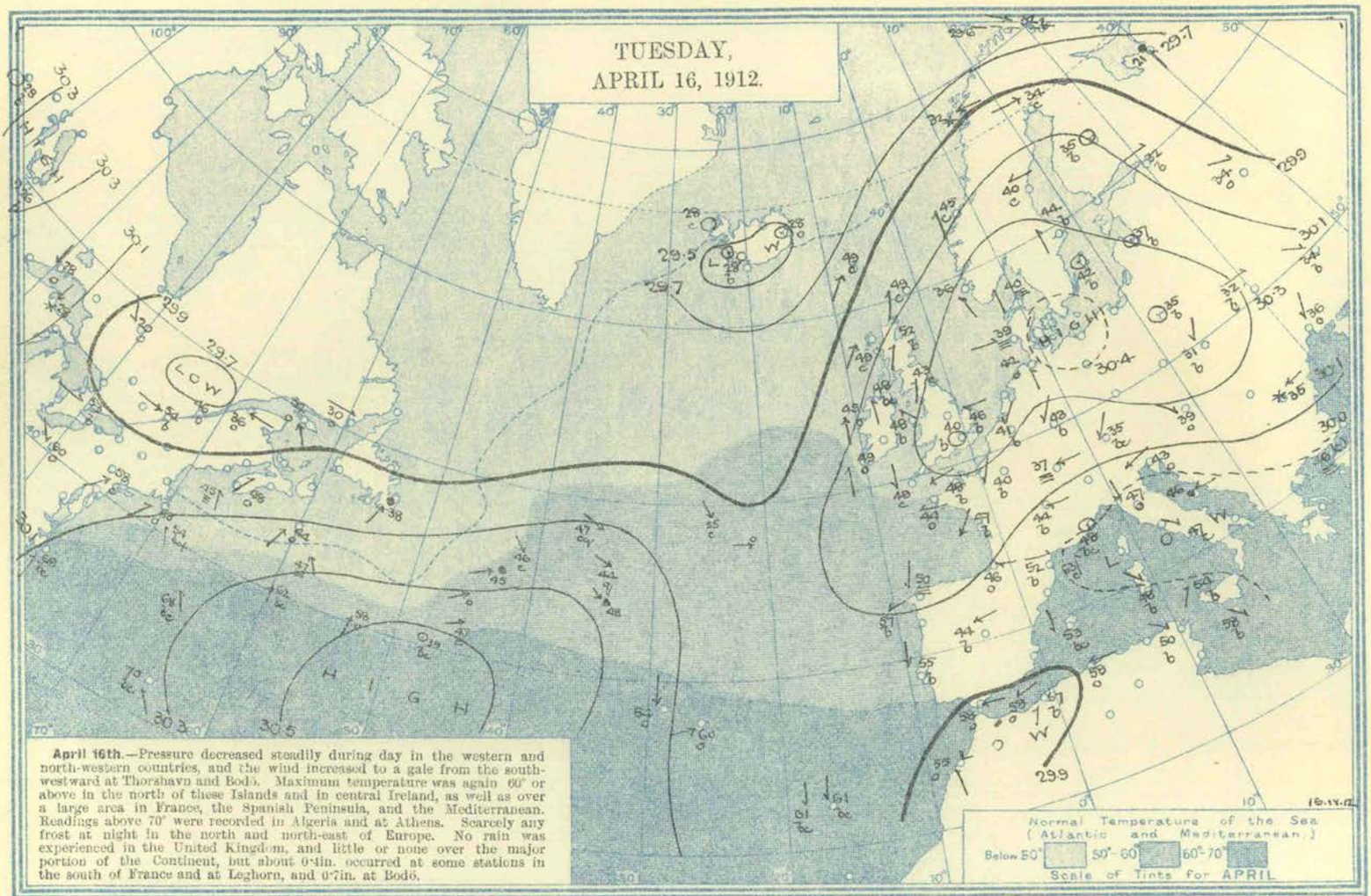
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



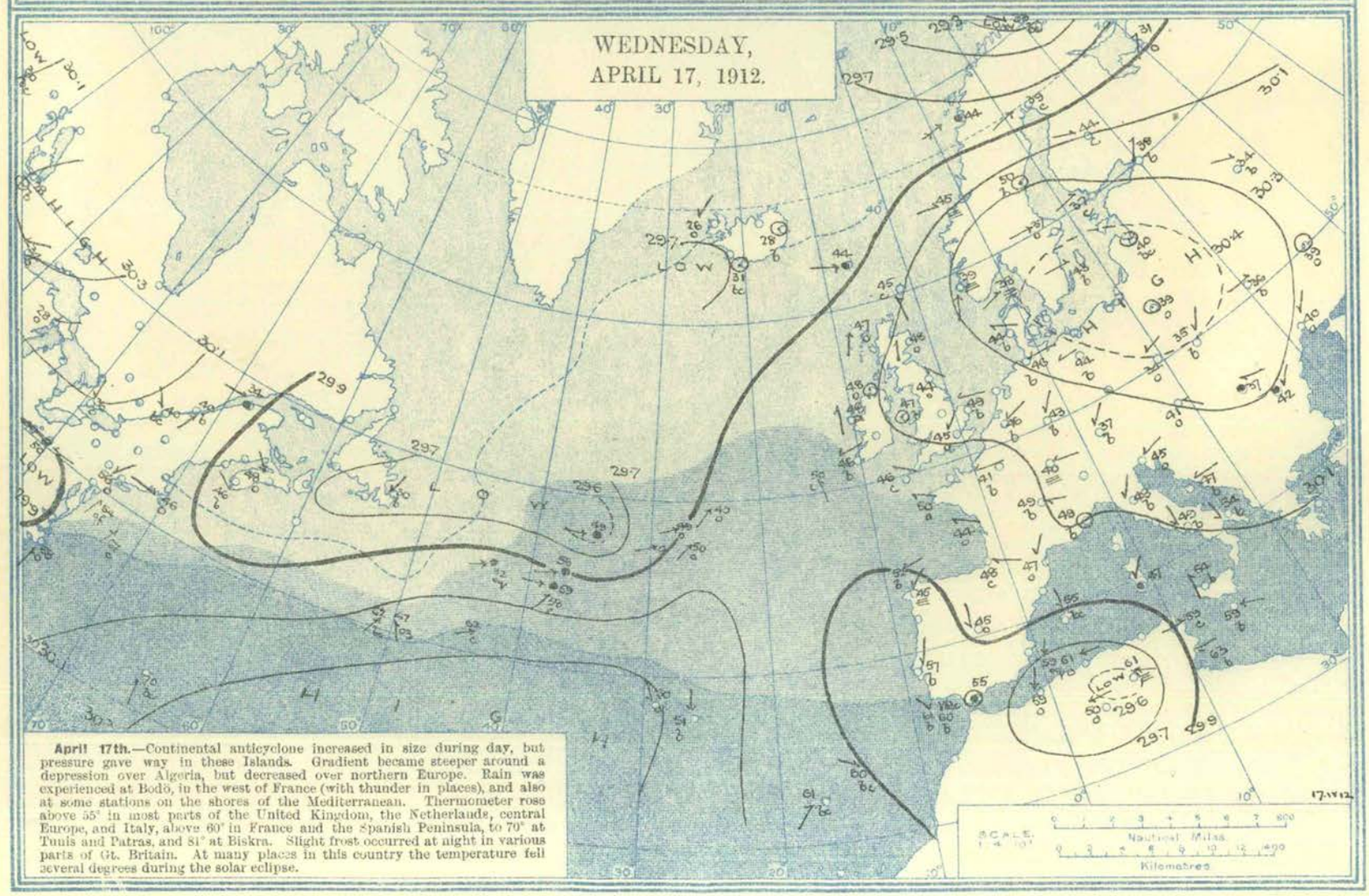
April 14th.—The deep depression over Iceland moved quickly north-eastward during day and the anticyclonic system extending from the Azores to Sweden maintained its position. The thermometer rose to above 55° in most parts of the United Kingdom and France, but remained below it in the central countries and also over the greater part of Italy. Maxima above 70° at a few scattered places in the Mediterranean. Slight frost occurred at night in Germany and the east of France. Over Europe generally there was no rain, but some heavy falls took place in the southern parts of Spain and Italy and also on the west coast of Norway, and smaller amounts in Austria-Hungary.



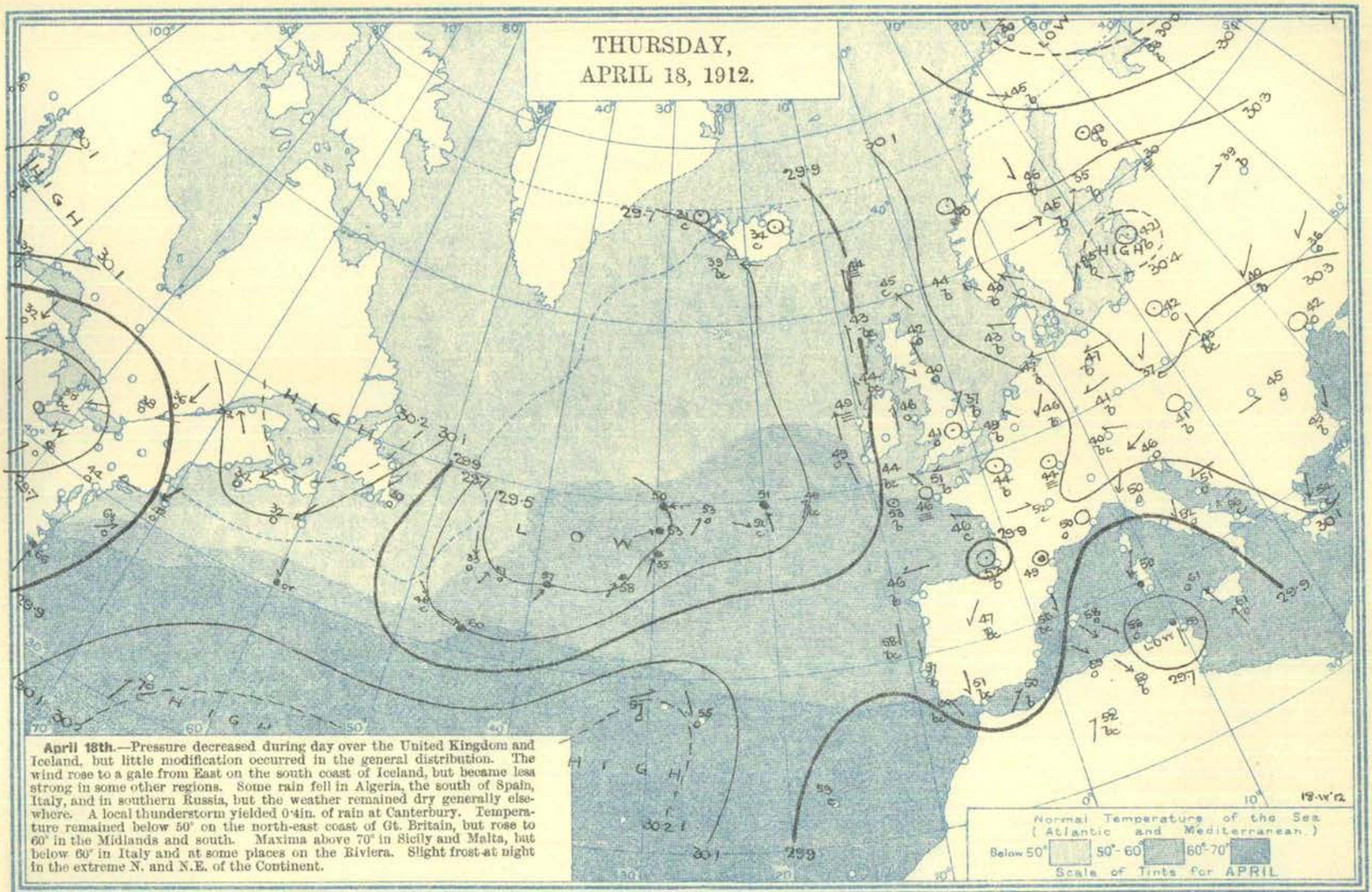
April 15th.—The anticyclonic system extended further eastward over Europe during day, but decreased somewhat in intensity generally. A depression arrived over Iceland, while that over Italy and the Adriatic became less deep, and much modified in form. The thermometer rose to 60° or a little above in several parts of these Islands and France, but remained below 50° over a large area in central Europe, and only touched 52° degrees at Brindisi. Frost occurred locally at night in the English Midlands. Frost was also experienced at many places in the central countries of the Continent. The weather remained dry generally, but 0·3in. of rain fell at Gap, Barcelona, Lesina, and Bucharest, and smaller quantities in a few other localities.



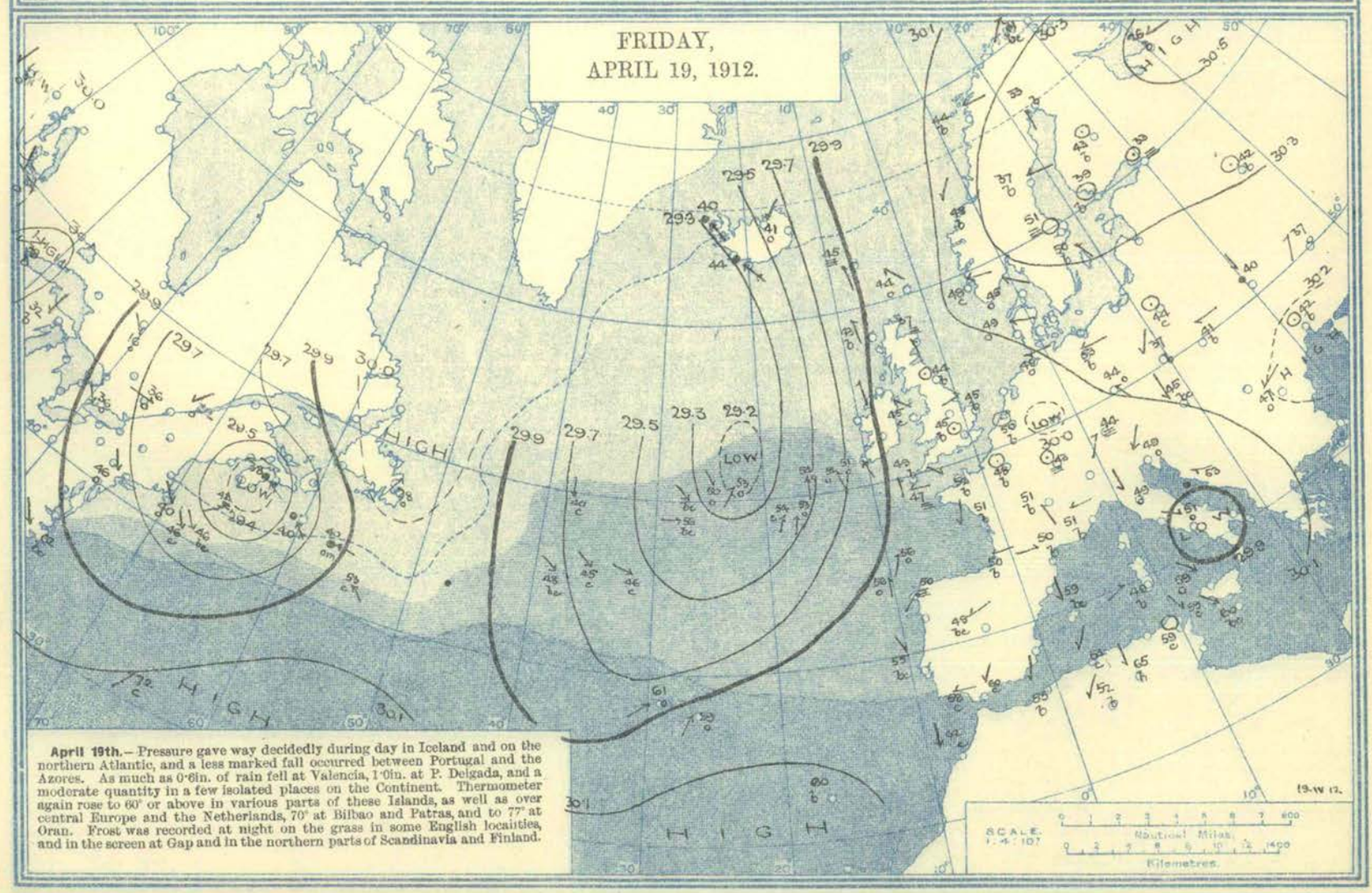
April 16th.—Pressure decreased steadily during day in the western and north-western countries, and the wind increased to a gale from the south-westward at Thorshavn and Bodö. Maximum temperature was again 60° or above in the north of these Islands and in central Ireland, as well as over a large area in France, the Spanish Peninsula, and the Mediterranean. Readings above 70° were recorded in Algeria and at Athens. Scarcely any frost at night in the north and north-east of Europe. No rain was experienced in the United Kingdom, and little or none over the major portion of the Continent, but about 0·4in. occurred at some stations in the south of France and at Leghorn, and 0·7in. at Bodö.



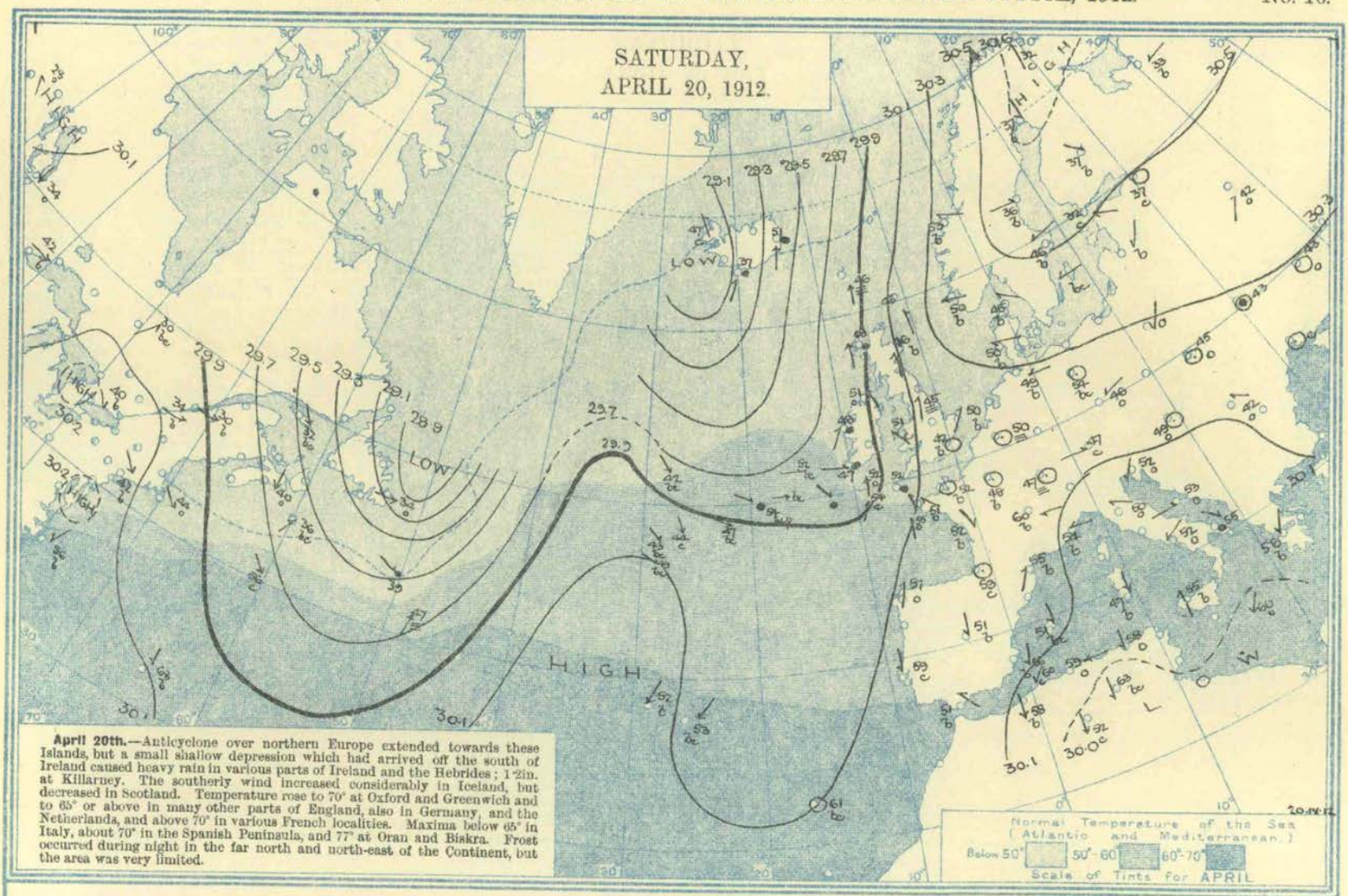
April 17th.—Continental anticyclone increased in size during day, but pressure gave way in these Islands. Gradient became steeper around a depression over Algeria, but decreased over northern Europe. Rain was experienced at Bodö, in the west of France (with thunder in places), and also at some stations on the shores of the Mediterranean. Thermometer rose above 55° in most parts of the United Kingdom, the Netherlands, central Europe, and Italy, above 60° in France and the Spanish Peninsula, to 70° at Tunis and Patras, and 81° at Biskra. Slight frost occurred at night in various parts of Gt. Britain. At many places in this country the temperature fell several degrees during the solar eclipse.



April 18th.—Pressure decreased during day over the United Kingdom and Iceland, but little modification occurred in the general distribution. The wind rose to a gale from East on the south coast of Iceland, but became less strong in some other regions. Some rain fell in Algeria, the south of Spain, Italy, and in southern Russia, but the weather remained dry generally elsewhere. A local thunderstorm yielded 0·4in. of rain at Canterbury. Temperature remained below 50° on the north-east coast of Gt. Britain, but rose to 60° in the Midlands and south. Maxima above 70° in Sicily and Malta, but below 60° in Italy and at some places on the Riviera. Slight frost at night in the extreme N. and N.E. of the Continent.

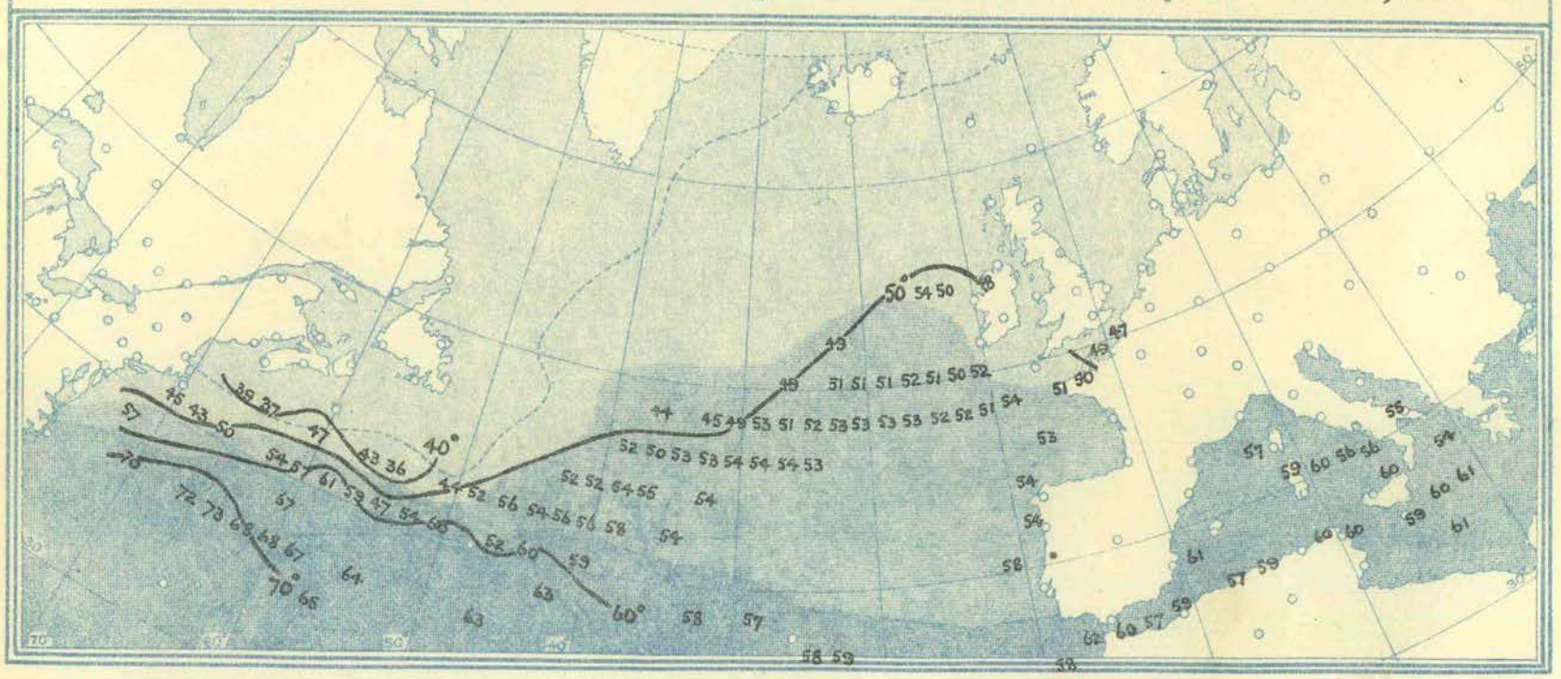


April 19th.—Pressure gave way decidedly during day in Iceland and on the northern Atlantic, and a less marked fall occurred between Portugal and the Azores. As much as 0·6in. of rain fell at Valencia, 1·0in. at P. Delgada, and a moderate quantity in a few isolated places on the Continent. Thermometer again rose to 60° or above in various parts of these Islands, as well as over central Europe and the Netherlands, 70° at Bilbao and Patras, and to 77° at Oran. Frost was recorded at night on the grass in some English localities, and in the screen at Gap and in the northern parts of Scandinavia and Finland.



April 20th.—Anticyclone over northern Europe extended towards these Islands, but a small shallow depression which had arrived off the south of Ireland caused heavy rain in various parts of Ireland and the Hebrides; 1·2in. at Killarney. The southerly wind increased considerably in Iceland, but decreased in Scotland. Temperature rose to 70° at Oxford and Greenwich and to 65° or above in many other parts of England, also in Germany, and the Netherlands, and above 70° in various French localities. Maxima below 65° in Italy, about 70° in the Spanish Peninsula, and 77° at Oran and Biskra. Frost occurred during night in the far north and north-east of the Continent, but the area was very limited.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 20TH APRIL, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟿ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 17. SEVENTEENTH WEEK, SUNDAY, APRIL 21ST, TO SATURDAY, APRIL 27TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition remained very fine and dry, but some rain was experienced in Ireland and Scotland early in the week. Thunder and lightning occurred at some Irish stations on the 25th, and thunder at Cahir. At Markree Castle thunder was heard on the 25th, 26th and 27th.

Temperature was above the average, the excess ranging from 5°·6 in Scotland W. to 2°·1 in Ireland S. The highest of the maxima were registered early in the period, and varied from 72° in England E. and the Midland Counties to 69° in Ireland N. Several of the nights were cold for the time of the year, and the lowest of the minima, which were recorded at most stations during the latter half of the week, ranged from 29° in Scotland E., 30° in Scotland W., and 32° in many other parts of the Kingdom to 36° in Scotland N. and to 45° in the English Channel. The lowest grass readings were 20° at Wisley, 24° at Newton Rigg, Llangammarch Wells, and Crathes and 25° at Balmoral and West Linton. The temperature of the soil both at 1 foot and 4 feet below the surface was again above the average.

Mean Temperature of the Sea. At every station except Kirkwall and Sheephaven the water was considerably warmer than during the corresponding week of last year. Its temperature was also some degrees above the average. The means for the week ranged from 53° at Scilly and Plymouth to 45° at Lerwick, and to 43° at Burnmouth.

Rainfall. Over England there was no rain, and in Scotland the quantity was very slight, while in Ireland the fall amounted to less than half the average.

Bright Sunshine exceeded the normal in all districts, the divergence being large generally. In England S.E. the mean daily duration was 11·3 hours, or more than twice the average, and in some other English districts it was more than 10 hours. The percentage of the possible duration ranged from 45 in Scotland N., 49 in Scotland E., and 54 in Ireland N. to 75 in England E., and to 79 in England S.E.

Barometer and Wind. At the commencement of the week a small shallow depression lay over the region of the St. George's and Bristol Channels, but it soon dispersed, and during the week as a whole the pressure distribution was anticyclonic, with the centre of the system to the northward or north-eastward of these Islands. The main wind current was consequently between North and East, but it had little force except on the Channel and south-east coasts, where it occasionally blew a fresh to strong breeze.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 67.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Very unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Light	Very light	Nought	Nought	Nought	Nought	Light	Nought	Nought	Moderate	Light	Very light
	Sunshine ...	Abundant	Abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Very abundant	Abundant	Very abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 8 weeks from March 3rd, 1912.	Warmth ...	5 * 1	6 * 0	6 * 0	6 * 0	6 * 0	5 * 0	5 * 1	6 * 0	5 * 0	6 * 0	5 * 0	5 * 0
	Rainfall ...	3 * 3	2 * 2	3 * 5	2 * 4	3 * 5	2 * 4	2 * 2	3 * 2	3 * 3	2 * 2	2 * 2	3 * 3
	Sunshine ...	3 * 1	3 * 1	2 * 3	3 * 2	3 * 2	6 * 2	2 * 1	4 * 2	2 * 3	2 * 4	2 * 3	2 * 3

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(24114—24.) Wt. 173—814. 450. 5/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.					Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*59*	*23, 24*	*37*	*23, 24*	*52·7*	*40·1*	*46·1*	—	*37*	*5*	•	•	46·5	•	•	•	*1*	*0·01*	—	*8·4*	—	*55*	—	*Baltasound.*
a Islands .. { *a Lerwick*	58	24th	39	24th	50·9	41·1	45·8	+ 3·4	30	3	•	•	•	•	•	•	1	0·01	—	6·0	+ 0·8	40	+ 5	Deerness.
a Stornoway	62	23rd	40	27th	53·1	42·0	47·3	+ 3·2	37	0	•	•	•	•	•	•	2	0·29	- 0·55	7·1	+ 1·5	47	+10	Stornoway.
a Castlebay, Barra Isd. .	*61*	*24th*	*43*	*21, 22*	*55·7*	*45·6*	*50·4*	+ *3·4*	*59*	*0*	•	•	•	•	•	•	*1*	*0·04*	—	*6·4*	—	*43*	—	*Castlebay.*
a Main-land. { *a Wick*	54	21, 24	40	25th	49·4	42·3	45·7	+ 1·5	26	0	•	•	•	•	•	•	0	0·00	- 0·44	•	•	•	•	
p Strathpeffer	68	23rd	39	23, 27	57·3	42·1	49·3	+ 4·6	51	0	•	•	•	•	•	•	1	0·07	- 0·36	6·6	+ 1·6	44	+11	Strathpeffer.
p Glencarron ..	68	23, 24	39	25th	60·7	41·4	50·6	+ 6·9	63	2	•	•	•	•	•	•	1	0·20	- 0·95	•	•	•	•	
p Fort Augustus ..	71	23rd	36	23, 24	58·4	41·7	49·7	+ 4·8	55	1	•	•	•	•	•	•	1	0·03	- 0·48	7·0	+ 3·0	47	+20	Fort Augustus.
p Fort William ..	71	23rd	38	26th	63·4	41·6	52·0	+ 6·0	72	1	•	•	•	•	•	•	1	0·17	- 0·41	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle .. *a*	70	22, 23	38	24th	59·6	42·4	50·6	+ 5·5	60	0	•	•	•	•	•	•	1	0·03	- 0·34	*5·9*	—	*40*	—	*Gordon Castle.*
a Nairn	67	24th	35	23, 24	56·4	39·7	47·7	+ 2·7	50	6	•	•	•	•	•	•	1	0·02	- 0·33	6·5	—	44	—	Nairn.
a Aberdeen ..	62	23, 24	35	23rd	56·0	40·4	47·8	+ 3·0	47	4	•	•	•	•	44·9	+2·0	0	0·00	- 0·46	7·6	+ 2·1	51	+14	Aberdeen.
a Balmoral ..	68	25th	29	23rd	65·7	35·6	49·9	+ 8·1	82	18	3	25	•	•	•	•	0	0·00	- 0·52	•	•	•	•	Balmoral.
p Crieff	69	24th	36	23, 24	61·7	40·3	50·5	+ 4·4	67	5	•	•	•	•	•	•	1	0·01	- 0·49	6·6	—	45	—	Balruddery.
a Leith	67	21st	37	24th	57·7	41·7	49·3	+ 3·0	52	1	•	•	•	•	•	•	0	0·00	- 0·31	•	•	•	•	
p West Linton .. *a*	67	23rd	29	24th	58·6	36·0	46·8	+ 3·5	59	17	3	25	•	•	•	•	0	0·00	—	*8·6*	—	*59*	—	*West Linton.*
p Marchmont	69	21st	36	27th	58·9	39·7	48·8	+ 4·8	57	6	1	30	49·4	+6·1	•	•	1	0·03	- 0·47	7·7	+ 2·7	53	+18	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	64	21st	33	23, 24	57·3	36·7	46·5	+ 1·9	54	15	5	27	49·1	+5·5	46·4	+2·9	0	0·00	- 0·43	8·8	—	60	•	Cockle Park.
a Shields	60	21st	37	23, 24, 26	53·1	39·0	45·7	+ 0·5	39	8	•	•	•	•	•	•	0	0·00	- 0·34	•	•	•	•	
p Durham	69	21st	33	23rd	57·4	37·4	46·9	+ 2·1	54	13	3	28	•	•	•	•	0	0·00	- 0·36	8·4	+ 3·6	58	+25	Durham.
a, North .. { *p Rounton*	69	21st	34	25th	58·1	39·1	48·1	+ 3·4	55	8	0	31	49·7	•	•	•	0	0·00	- 0·34	•	•	•	•	Rounton.
a West Witton	*67*	*21, 22*	*35*	*25th*	*59·0*	*39·1*	*48·6*	—	*58*	*8*	2	30	47·8	•	43·8	•	*1*	*0·01*	—	•	•	•	•	*West Witton.*
p Scarborough ..	60	21st	43	24, 26	55·1	44·1	49·3	+ 3·7	51	0	•	•	•	•	•	•	0	0·00	- 0·42	8·5	—	58	—	Scarborough.
p York	71	21st	39	25th	62·7	42·0	51·9	+ 4·7	69	0	•	•	49·9	+3·8	46·1	+1·4	0	0·00	- 0·41	9·2	+ 4·3	63	+30	York.
a Spurn Head	57	21st	41	22, 26, 27	53·3	42·6	47·7	+ 1·4	40	0	1	30	49·0	+3·1	46·0	+1·8	0	0·00	- 0·27	*7·5*	—	*51*	—	*Hull.*
b, South .. { *a Lincoln*	70	21st	38	25th	61·9	41·9	51·4	+ 4·0	66	0	•	•	52·8	+6·6	46·8	+2·1	0	0·00	- 0·36	•	•	•	•	Lincoln.
a Fulbeck	71	21st	35	24, 25	63·6	39·1	50·8	+ 3 5	74	8	3	26	53·4	+4·0	47·9	+1·9	0	0·00	- 0·37	10·1	—	70	—	Rauceby.
3. ENGLAND, E.																				9·4	—	65	—	Skegness.
											0	38	51·7	+3·6	48·5	+2·1	—	—	—	*9·3*	—	*65*	—	*Lowestoft.*
p Cromer	61	21st	41	26, 27	54·3	43·1	48·4	+ 2·9	45	0	•	•	•	•	•	•	0	0·00	—	9·0	—	63	—	Cromer.
p Hillington ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. { *a Yarmouth*	56	21, 23, 24	42	26, 27	52·7	44·4	48·4	+ 2·5	45	0	•	•	54·1	+3·9	50·0	+1·6	0	0·00	- 0·35	*9·2*	—	*64*	—	*Yarmouth.*
a Norwich											2	27	51·4	•	•	•	—	—	—	*11·6*	—	*81*	—	*Norwich.*
p Geldeston	66	21st	35	21st	58·6	40·4	49·1	+ 2·1	56	4	•	•	•	•	•	•	0	0·00	- 0·37	10·9	+ 5·1	76	+36	Geldeston.
											0	33	49·7	+4·1	44·8	+2·0	—	—	—	*9·0*	—	*62*	—	*Huddersfield.*
4. MIDLAND COUNTIES.																								
a Harrogate	68	21st	38	23, 24	59·6	39·3	49·0	+ 3·6	60	8	1	29	47·4	+3·2	45·9	+1·9	0	0·00	- 0·44	9·5	—	65	—	Harrogate.
a Bawtry	72	21, 22	36	22nd	65·4	38·1	51·1	+ 3·8	80	11	5	26	50·4	•	47·7	•	0	0·00	- 0·35	10·0	—	69	—	Worksop.
p Buxton	*66*	*21st*	*34*	*25th*	*60·0*	*42·6*	*50·9*	+ *7·1*	*62*	*0*	5	26	49·1	+3·9	45·0	+1·7	*0*	*0·00*	- *0·67*	*10·1*	+ *5·4*	*70*	+*38*	*Buxton.*
a East .. { *a Nottingham*	69	21st	38	22nd	61·3	40·1	50·2	+ 3·0	65	5	0	32	51·2	+5·0	46·9	+2·7	0	0·00	- 0·37	11·1	—	76	—	Nottingham.
p Birmingham, Edgbsn.	69	21st	40	24, 25, 27	61·9	42·4	51·7	+ 4·5	68	0	2	30	48·4	+4·0	46·5	+2·1	0	0·00	- 0·44	9·8	—	69	—	Birmingham.
a Raunds	71	21st	36	25th	62·1	38·9	49·9	+ 2·7	68	9	1	27	49·1	—	47·0	—	0	0·00	—	•	•	•	•	Raunds.
a Oxford	70	21, 22	37	25th	64·1	40·0	51·5	+ 3·3	75	6	2	26	•	•	•	•	0	0·00	- 0·36	11·5	+ 6·1	80	+42	Oxford.
											0	34	49·2	+4·0	45·5	+2·1	—	—	—	9·0	—	63	—	Sheffield.
a Cheadle	68	22, 23	37	27th	64·0	41·7	52·3	+ 6·4	73	1	1	30	•	•	•	•	0	0·00	- 0·46	•	•	•	•	Cheadle.
p Shrewsbury ..	70	21st	32	25th	65·0	37·0	50·3	+ 2·1	79	14	1	29	•	•	•	•	0	0·00	—	•	•	•	•	Shrewsbury.
b, West .. { *a Hereford*	69	21st	35	25th	62·9	39·4	50·6	+ 2·4	71	7	2	28	•	•	•	•	0	0·00	- 0·42	•	•	•	•	Hereford.
a Cirencester ..	70	21st	35	21st	63·6	39·1	50·8	+ 4·1	74	8	0	32	50·6	•	47·8	•	0	0·00	- 0·43	11·5	+ 5·8	80	+41	Cirencester.
a Bath	70	21, 22	38	25th	65·7	40·9	52·7	+ 4·2	80	3	•	•	•	•	•	•	0	0·00	- 0·45	10·8	—	76	—	Bath.
											0	32	52·9	+5·1	50·4	+3·0	—	—	—	•	•	•	•	Canterbury.
5. ENGLAND, S.E.																								
p Kew	68	21st	40	21, 22, 26	63·1	41·7	51·9	+ 3·5	71	1	3	27	50·7	+2·5	48·9	+2·2	0	0·00	- 0·34	10·7	+ 5·3	75	+37	Kew.
a Marlborough ..	69	21st	30	21st	64·4	36·1	49·6	+ 3·0	78	17	5	26	•	•	•	•	0	0·00	- 0·44	11·1	+ 6·0	78	+42	Marlborough.
a Margate	59	21st	45	22, 26, 27	53·7	46·1	49·7	+ 1·7	54	0	—	—	49·4	+1·8	47·6	+1·3	0	0·00	- 0·31	9·2	+ 3·7	64	+26	Margate.
a Wisley, Surrey ..	70	21st	35	21st	64·6	38·6	51·0	+ 2·0	77	10	6	23	50·9	+3·1	49·0	+2·2	0	0·00	—	10·6	—	74	—	Wisley
a Swarraton	69	21, 22	35	21st	64·7	38·9	51·2	+ 4·3	77	9	0	36	53·4	+4·0	49·9	+2·5	0	0·00	- 0·44	12·0	—	85	—	Worthing.
a Tunbridge Wells ..	70	21st	39	21, 26	62·7	41·1	51·4	+ 4·0	70	3	0	31	51·9	+3·6	•	•	0	0·00	- 0·39	11·9	+ 6·1	83	+43	Tunbridge Wells.
a Dungeness	61	21, 22	40	21st	58·4	45·6	51·7	+ 4·2	68	0	•	•	•	•	•	•	0	0·00	- 0·30	11·7	—	82	—	Littlestone.
p Hastings	67	21st	43	26th	62·9	45·7	53·9	+ 5·8	83	0	0	40	53·3	•	49·4	•	0	0·00	- 0·37	*12·3*	+ *6·1*	*87*	+*43*	*Hastings.*
p Southampton ..	70	21st	40	26th	66·6	43·3	54·4	+ 4·5	87	0	0	33	•	•	•	•	0	0·00	- 0·44	11·7	+ 5·7	82	+40	Southampton.
a Ventnor	66	21st	41	26th	63·9	46·6	54·8	+ 5·1	90	0	•	•	•	•	•	•	1	0·03	- 0·34	12·0	+ 5·6	85	+40	Ventnor.
											0	33	53·6	+3·5	50·8	+2·1	—	—	—	*12·1*	—	*86*	—	*Portsmouth.*
											•	•	52·3	•	49·8	•	—	—	—	11·8	+ 5·6	84	+40	Eastbourne.
											•	•	50·8	•	49·9	•	—	—	—	*12·0*	—	*85*	—	*Bournemouth.*
LONDON.											•	•	•	•	49·9	•	—	—	—	*11·8*	+ *5·6*	*84*	+*40*	*Brighton.*
											0	36	•	•	•	•								
a Westminster	*70*	*21st*	*41*	*26th*	*64·6*	*44·1*	*53·9*	+ *5·1*	*83*	*0*	0	35	•	•	•	•	*0*	*0·00*	- *0·33*	*10·8*	+ *6·5*	*76*	+*46*	*Westminster.*
a Greenwich	*71*	*21st*	*37*	*21st*	*65·0*	*41·1*	*52·5*	+ *3·8*	*77*	*3*	3	26	•	•	•	•	*0*	*0·00*	- *0·31*	*10·9*	+ *5·6*	*76*	+*39*	*Greenwich.*
a Hampstead	*69*	*21st*	*38*	*26th*	*63·1*	*41·1*	*51·6*	—	*71*	*3*	1	30	•	•	•	•	*0*	*0·00*	—	*11·0*	—	*77*	—	*Hampstead.*
a Camden Square ..	*73*	*21st*	*38*	*21st*	*67·9*	*42·0*	*54·3*	—	*86*	*0*	0	34	•	•	•	•	*0*	*0·00*	—	*10·3*	—	*72*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	66	23, 24	38	26th	62·3	42·9	52·1	+ 5·8	71	0	•	•	•	•	•	•	1	0·51	- 0·08	•	•	•	•	
p Glasgow	67	24th	40	24th	60·7	44·1	52·0	+ 5·6	70	0	0	34	•	•	•	•	1	0·02	- 0·48	7·2	+ 2·6	49	+18	Glasgow.
p Rothesay	69	24th	41	26th	62·1	45·0	53·1	+ 6·5	78	0	•	•	•	•	46·5	+1·7	1	0·22	- 0·43	•	•	•	•	
a Kilmarnock ..	71	23rd	32	27th	63·9	41·3	52·1	+ 6·0	74	2	•	•	•	•	•	•	1	0·05	—	*8·6*	—	*59*	—	*Kilmarnock.*
a Colmonell ..	69	23rd	34	27th	62·4	41·0	51·2	+ 4·7	69	3	2	29	•	•	•	•	1	0·11	- 0·44	•	•	•	•	
p Dumfries	70	22nd	37	26, 27	65·6	40·1	52·2	+ 5·5	79	5	3	28	50·1	•	47·3	•	0	0·00	- 0·52	7·9	—	54	—	*Dumfries.*
p Cally, Gatehouse	70	22nd	36	26th	63·4	41·0	51·7	+ 5·5	72	3	•	•	•	•	•	•	0	0·00	- 0·69	•	•	•	•	
b I. OF MAN.																								
p Douglas	68	22nd	43	25th	60·1	46·6	53·0	+ 6·8	77	0	0	34	•	•	•	•	1	0·04	- 0·19	8·9	+ 2·5	61	+17	Douglas.
											4	27	48·7	+4·2	44·9	+1·8	—	—	—	*9·9*	—	*69*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											1	28	•	•	•	•	—	—	—	10·0	—	69	—	Hoylake.
p Aspatria	70	22nd	37	24, 26	63·4	41·1	51·7	+ 6·2	72	3	2	27	50·7	•	46·3	•	0	0·00	- 0·50	10·2	—	70	—	Aspatria.
p Newton Rigg ..	67	22nd	32	24th	62·7	38·6	50·1	+ 5·4	71	10	5	24	49·1	+3·8	45·4	+1·9	0	0·00	- 0·52	9·9	+ 4·5	69	+32	Newton Rigg.
p Stonyhurst ..	66	21, 22	39	25th	61·4	43·4	52·0	+ 6·0	70	0	1	28	•	•	•	•	0	0·00	- 0·63	10·2	+ 4·8	71	+34	Stonyhurst.
p Blackpool	67	22nd	36	25th	62·1	41·1	51·1	+ 4·4	67	3	•	•	•	•	•	•	0	0·00	- 0·45	10·4	+ 4·8	72	+34	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	67	22nd	40	27th	62·4	44·6	53·1	+ 5·9	78	0	•	•	•	•	•	•	0	0·00	- 0·39	*9·4*	—	*65*	—	*Liverpool.*
a Hawarden Bridge ..	69	22nd	38	25th	64·0	40·9	51·9	+ 3·4	74	3	4	27	51·3	+2·6	48·6	+1·7	0	0·00	- 0·33	*9·8*	+ *3·9*	*68*	+*27*	*Southport.*
											0	38	50·3	+5·1	47·1	+1·9	—	—	—	*10·5*	—	*73*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	70	22nd	42	25, 26, 27	61·6	45·1	53·0	+ 5·2	77	0	•	•	•	•	•	•	0	0·00	- 0·41	10·3	+ 4·7	72	+33	Llandudno.
a Holyhead	61	23rd	44	26, 27	58·9	45·9	52·1	+ 4·8	71	0	•	•	•	•	•	•	1	0·02	- 0·45	10·6	—	74	—	Aberdovey.
p Bettws-y-Coed ..	69	22nd	36	26, 27	63·0	40·7	51·3	+ 3·7	71	4	0	33	49·0	+3·4	47·3	+2·1	0	0·00	—	9·5	—	66	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				10·1	—	71	—	Aberystwyth.
a Llangammarch Wells	68	22nd	33	24, 25	62·7	35·4	48·4	+ 2·5	73	18	5	24	48·5	+2·3	46·6	+1·3	0	0·00	—	8·9	—	62	—	Llangammarch
a Pembroke	67	23rd	43	26th	60·7	46·1	53·1	+ 5·8	78	0	*	*	*	*	*	*	1	0·03	− 0·42	8·7	+ 2·4	61	+17	Pembroke.[Wells
p Cardiff	68	22nd	39	26, 27	62·6	42·1	51·9	+ 2·6	69	0	0	34	52·0	+4·5	48·8	+2·8	0	0·00	− 0·56	*10·5*	—	*73*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	71	22nd	40	26, 27	65·3	43·1	53·7	+ 4·6	82	0	0	*28*	*	*	*	*	0	0·00	− 0·51	*10·1*	—	*71*	—	*Clifton.*
a Shaftesbury	67	21, 22	35	26th	62·3	42·1	51·7	+ 4·8	68	0	*	*	52·1	*	*	*	0	0·00	− 0·51	*	*	*	*	Shaftesbury.
a Arlington	68	22nd	39	26th	63·0	43·3	52·7	+ 6·2	75	0	*	*	52·6	*	*	*	0	0·00	− 0·67	10·7	+ 4·6	76	+33	Newquay.
a Cullompton	71	22nd	38	26th	65·7	41·3	52·9	+ 4·6	79	2	0	31	54·6	*	*	*	0	0·00	− 0·51	9·6	+ 4·1	68	+29	Cullompton.
a Portland	63	23rd	43	26th	59·1	46·4	52·5	+ 4·1	74	0	*	*	*	*	*	*	0	0·00	—	*11·9*	—	*84*	—	*Weymouth.*
p Plymouth	68	22nd	45	27th	63·9	48·6	55·9	+ 6·5	97	0	0	32	55·7	+5·7	*	*	0	0·00	− 0·50	10·9	+ 4·8	77	+34	Plymouth.
p Falmouth	62	24th	45	24th	58·7	48·3	53·3	+ 4·5	79	0	*	*	*	*	*	*	0	0·00	− 0·57	11·2	+ 4·7	79	+33	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	63	23rd	41	21st	54·6	44·0	49·1	+ 2·8	50	0	*	*	*	*	*	*	2	0·17	− 0·28	*	*	*	*	* *
a Blacksod Point ..	65	24th	38	23rd	59·0	42·0	50·1	+ 2·3	57	0	*	*	*	*	*	*	2	0·13	− 0·52	*	*	*	*	* *
p Markree Castle ..	69	24th	32	26th	61·9	35·6	48·1	+ 1·5	70	18	4	28	51·5	*	46·8	*	0	0·00	− 0·58	8·5	+ 3·3	58	+22	Markree Castle.
a Birr Castle	68	23rd	34	25th	62·1	38·1	49·5	+ 2·2	69	11	*	*	*	*	*	*	1	0·04	− 0·46	*8·6*	+ *3·2*	*60*	*+22*	*Birr Castle.*
b, East .. *p* Armagh	65	25th	36	26th	59·7	40·6	49·7	+ 3·0	60	4	2	30	50·5	+2·9	47·8	+1·5	3	0·88	+ 0·37	7·2	+ 2·1	49	+14	Armagh.
a Donaghadee	61	23rd	41	26th	54·6	44·9	49·5	+ 2·9	53	0	*	*	*	*	*	*	2	0·51	+ 0·04	*	*	*	*	* *
											1	30	50·7	+2·5	48·8	+1·6	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	28	*	*	*	*	—	—	—	8·6	+ 2·8	60	+20	Phœnix Park.
a, East .. *p* Dublin, City	61	24, 25	42	25, 27	58·1	43·7	50·6	+ 1·8	80	0	0	38	*	*	*	*	1	0·87	+ 0·44	*	*	*	*	Dublin City.
a Kilkenny	65	23rd	36	27th	60·0	39·4	49·2	+ 1·5	61	7	*	*	*	*	*	*	1	0·09	− 0·41	*	*	*	*	* *
a Waterford	67	23rd	39	27th	60·9	42·0	51·0	+ 3·3	63	0	*	*	*	*	*	*	1	0·14	− 0·39	*	*	*	*	* *
b, West .. *a* Birr Castle	68	23rd	34	25th	62·1	38·1	49·5	+ 2·2	69	11	*	*	*	*	*	*	1	0·04	− 0·46	8·6	+ 3·2	60	+22	Birr Castle.
a Foynes	67	23rd	39	22nd	61·9	42·4	51·7	+ 3·3	68	0	*	*	*	*	*	*	1	0·06	− 0·48	*	*	*	*	* *
a Cahir	65	23rd	36	25, 27	60·8	38·7	49·3	+ 2·0	65	9	*	*	*	*	*	*	1	0·07	—	*	*	*	*	* *
a Killarney	70	23rd	37	25th	65·3	41·4	52·8	+ 4·5	78	2	*	*	*	*	*	*	1	0·03	− 0·72	*	*	*	*	* *
a Valencia	67	25th	38	22, 25	61·0	40·4	50·2	+ 1·2	64	4	*	*	*	*	*	*	0	0·00	− 0·84	11·7	+ 5·8	82	+42	Valencia.
a Roche's Point	61	23rd	42	26th	57·0	44·4	50·4	+ 1·7	59	0	*	*	*	*	*	*	2	0·05	− 0·57	—	—	—	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	60	23rd	45	26th	57·0	48·0	52·3	+ 2·8	72	0	*	*	*	*	*	*	1	0·01	− 0·42	7·9	+ 1·5	56	+11	Scilly.
a Jersey, St. Aubins ..	71	22nd	48	21, 26	66·1	49·0	57·1	+ 7·0	106	0	*	*	*	*	*	*	0	0·00	− 0·48	11·5	+ 4·7	82	+34	St. Heliers.
a Guernsey (Villa Carey)	68	21st	48	21, 24, 27	61·9	48·4	54·8	+ 5·0	90	0	0	38	55·3	+5·3	51·6	+2·8	1	0·01	− 0·52	10·9	+ 3·8	77	+27	Guernsey.*

Additional Sunshine Means:—*Bognor, 11·9 hrs. 84 °/₀; Newcastle (Pendower),* hrs. °/₀; *Ramsgate, 10·3 hrs. 73 °/₀; Rhyl, 10·3 hrs. 72 °/₀; Salcombe, 11·1 hrs. 79 °/₀; Tenby, 10·1 hrs. (+3·7) 71 °/₀ (+ 26 °/₀); Torquay, 10·3 hrs. (+4·0) 72 °/₀ (+27 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, April 27th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	46	45	45·1	+0·9	SCOTLAND, W. ..	Lamlash	53	44	48·6	+3·0
	Kirkwall	48	47	48·0	+3·8		Ballantrae	54	48	50·3	+4·9
	Wick	47	46	46·3	+1·4	ENGLAND, N.W. ..	Port Erin	49	46	47·5	+1·5
SCOTLAND, E. ..	Cromarty	48	46	46·8	+3·8		Newquay	53	52	52·6	+3·2
	Pennan Bay	47	46	46·9	+3·1	ENGLAND, S.W. ..	Scilly	54	52	53·1	—
	Aberdeen, Cove Bay	47	46	46·4	+2·3		Plymouth‡	54	53	53·2	+4·2
ENGLAND, N.E. ..	Burnmouth, Berwick	44	43	43·4	—		Salcombe	54	49	51·2	+3·0
	Scarborough	52	46	49·1	+4·7	IRELAND, N.W. ..	Sheephaven	50	48	48·9	+1·0
ENGLAND, E. ..	Shipwash Lightship	51	47	49·0	+3·4		Teelin	56	47	51·5	+2·6
	Margate‡	54	51	52·5	+4·3	IRELAND, S.W. ..	Cleggan	53	47	50·4	+2·0
ENGLAND, S.E. ..	Eastbourne‡	53	51	52·4	+4·8		Seafield	54	48	50·9	+1·0
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

SEVENTEENTH WEEK—April 21st to April 27th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	71	36	56·2	41·7	48·6	+ 3·9	47	+ 14	1	− 11	1	− 3	0·11	−0·54	6·7	+1·9	45	+13
Eastern.																		
1. SCOTLAND, EAST ...	70	29	59·3	39·5	48·9	+ 3·8	59	+ 21	7	− 6	1	− 3	0·01	−0·45	7·2	+2·2	49	+15
2. ENGLAND, N.E.	71	33	58·1	40·2	48·7	+ 2·8	54	+ 17	5	− 3	0	− 4	0·00	−0·37	9·1	+3·8	62	+26
3. ENGLAND, EAST ...	72	35	59·6	41·6	50·2	+ 3·0	59	+ 11	1	− 7	0	− 4	0·00	−0·39	10·7	+5·0	75	+35
4. MIDLAND COUNTIES ...	72	32	63·2	39·7	50·9	+ 3·6	72	+ 23	6	− 5	0	− 4	0·00	−0·44	10·4	+5·3	72	+37
5. ENGLAND, S.E.	70	30	62·5	42·4	52·0	+ 3·6	70	+ 20	0	− 4	0	− 4	0·00	−0·46	11·3	+5·6	79	+39
Western.																		
6. SCOTLAND, WEST ...	71	32	62·6	42·8	52·2	+ 5·6	71	+ 30	0	− 7	1	− 3	0·12	−0·55	8·1	+2·9	55	+19
7. ENGLAND, N.W.	70	32	62·2	42·6	51·8	+ 4·7	69	+ 27	0	− 5	0	− 4	0·00	−0·50	10·1	+4·9	70	+34
8. ENGLAND, S.W.	71	33	62·4	43·7	52·6	+ 4·5	74	+ 27	0	− 3	0	− 4	0·00	−0·62	10·0	+4·3	70	+30
9. IRELAND, NORTH ...	69	32	58·7	40·9	49·4	+ 2·4	56	+ 14	3	− 2	2	− 2	0·29	−0·29	7·9	+3·0	54	+20
10. IRELAND, SOUTH ...	70	34	60·8	41·2	50·5	+ 2·1	63	+ 14	2	− 1	1	− 3	0·15	−0·52	9·6	+4·3	67	+30
11. ENGLISH CHANNEL ...	71	45	61·7	48·5	54·7	+ 4·8	89	+ 34	0	0	1	− 3	0·01	−0·51	10·1	+4·4	72	+24

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 8 Weeks, March 3rd to April 27th, 1912.

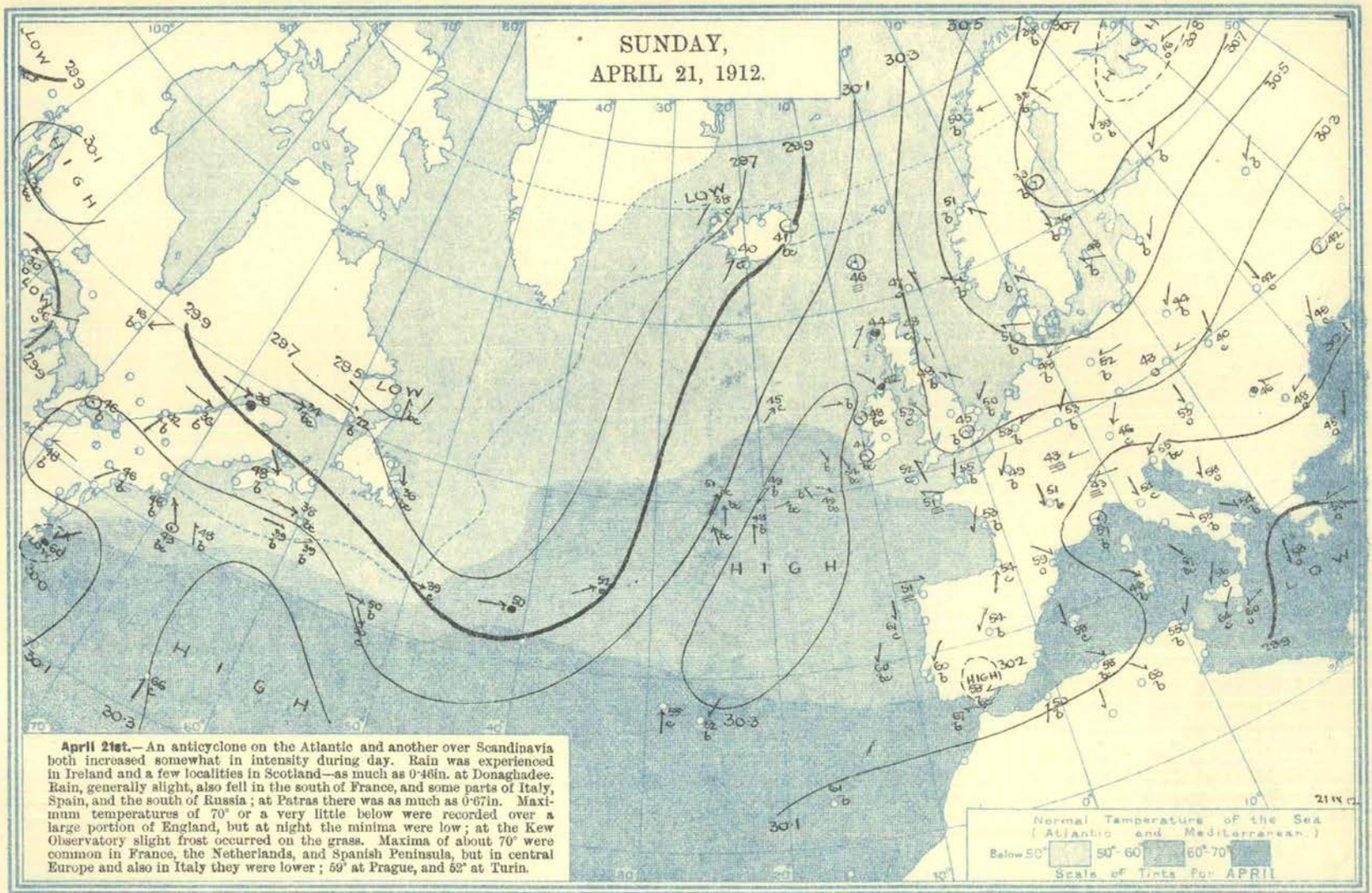
0. SCOTLAND, NORTH ...	71	25	*	*	*	*	194	+ 43	114	− 83	39	+ 2	9·47	+2·68	4·0	+0·1	31	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	70	20	*	*	*	*	262	+ 67	150	− 62	30	− 1	3·23	−0·61	4·8	+0·8	38	+ 5
2. ENGLAND, N.E	71	26	*	*	*	*	291	+ 92	94	− 67	23	− 6	2·31	−0·74	5·1	+0·5	40	+ 4
3. ENGLAND, EAST ...	72	26	*	*	*	*	340	+ 80	65	−103	24	− 3	2·81	−0·03	5·6	+0·9	44	+ 7
4. MIDLAND COUNTIES ...	72	24	*	*	*	*	342	+ 73	93	− 83	23	− 3	3·58	+0·38	5·0	+0·8	39	+ 6
5. ENGLAND, S.E.	70	23	*	*	*	*	350	+ 75	46	− 71	23	− 2	3·53	+0·41	5·9	+1·3	46	+ 9
Western.																		
6. SCOTLAND, WEST ...	71	24	*	*	*	*	262	+ 60	72	− 78	34	+ 3	6·11	+0·37	4·5	+0·1	35	+ 1
7. ENGLAND, N.W.	70	25	*	*	*	*	291	+ 76	63	− 65	26	− 3	4·48	+0·38	5·0	+0·8	39	+ 6
8. ENGLAND, S.W.	71	25	*	*	*	*	324	+ 58	30	− 67	30	+ 1	5·98	+1·37	4·7	−0·1	37	0
9. IRELAND, NORTH ...	69	30	*	*	*	*	285	+ 54	65	− 56	34	0	4·93	+0·27	4·1	0·0	32	0
10 IRELAND, SOUTH ...	70	29	*	*	*	*	341	+ 56	37	− 53	36	+ 5	5·32	+0·20	4·8	+0·2	38	+ 1
11. ENGLISH CHANNEL ...	71	35	*	*	*	*	405	+ 92	3	− 27	34	+ 3	5·71	+1·89	5·5	−0·1	43	− 1

THE YEAR.—Aggregates, &c., for the Period of 17 Weeks, December 31st, 1911, to April 27th, 1912.

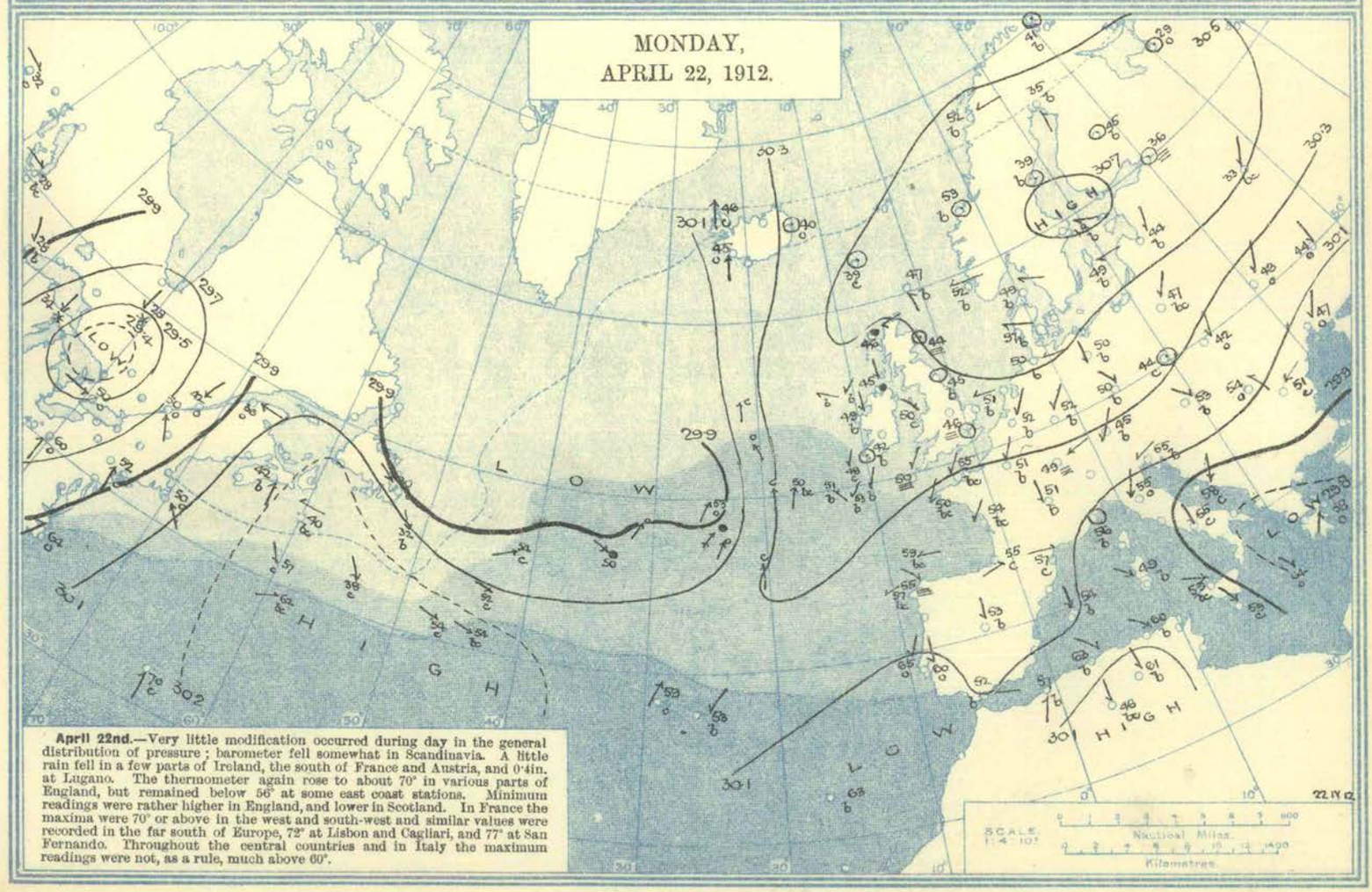
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	268	+ 57	410	−117	83	0	17·04	−0·71	2·7	+0·1	26	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	70	−5	*	*	*	*	337	+ 74	493	− 96	73	+ 7	8·62	−0·21	3·1	+0·1	30	+ 1
2. ENGLAND, N.E.	71	10	*	*	*	*	392	+113	365	− 97	64	+ 2	6·81	+0·37	3·2	0·0	30	0
3. ENGLAND, EAST ...	72	14	*	*	*	*	472	+122	272	−235	63	+ 2	7·10	+0·89	3·3	−0·1	31	0
4. MIDLAND COUNTIES ...	72	9	*	*	*	*	469	+ 96	365	−147	61	+ 2	9·30	+1·92	3·1	+0·1	29	+ 1
5. ENGLAND, S.E.	70	13	*	*	*	*	505	+112	216	−160	62	+ 5	9·35	+1·78	3·5	+0·2	32	+ 1
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	353	+ 62	325	− 87	73	+ 2	14·86	+0·27	2·9	−0·1	27	− 1
7. ENGLAND, N.W.	70	7	*	*	*	*	415	+106	294	− 85	65	0	10·32	+0·55	3·2	+0·3	30	+ 3
8. ENGLAND, S.W.	71	9	*	*	*	*	502	+ 85	189	−107	76	+11	14·16	+2·55	3·1	−0·3	29	− 2
9. IRELAND, NORTH ...	69	15	*	*	*	*	444	+ 88	236	−102	68	− 8	11·62	+0·43	2·9	0·0	27	0
10. IRELAND, SOUTH ...	70	13	*	*	*	*	550	+ 79	167	− 88	82	+13	14·17	+1·50	3·3	0·0	31	0
11. ENGLISH CHANNEL ...	71	27	*	*	*	*	726	+194	44	− 65	73	+ 1	12·04	+2·31	3·7	−0·4	35	− 3

NOTES ON TABLE IV.

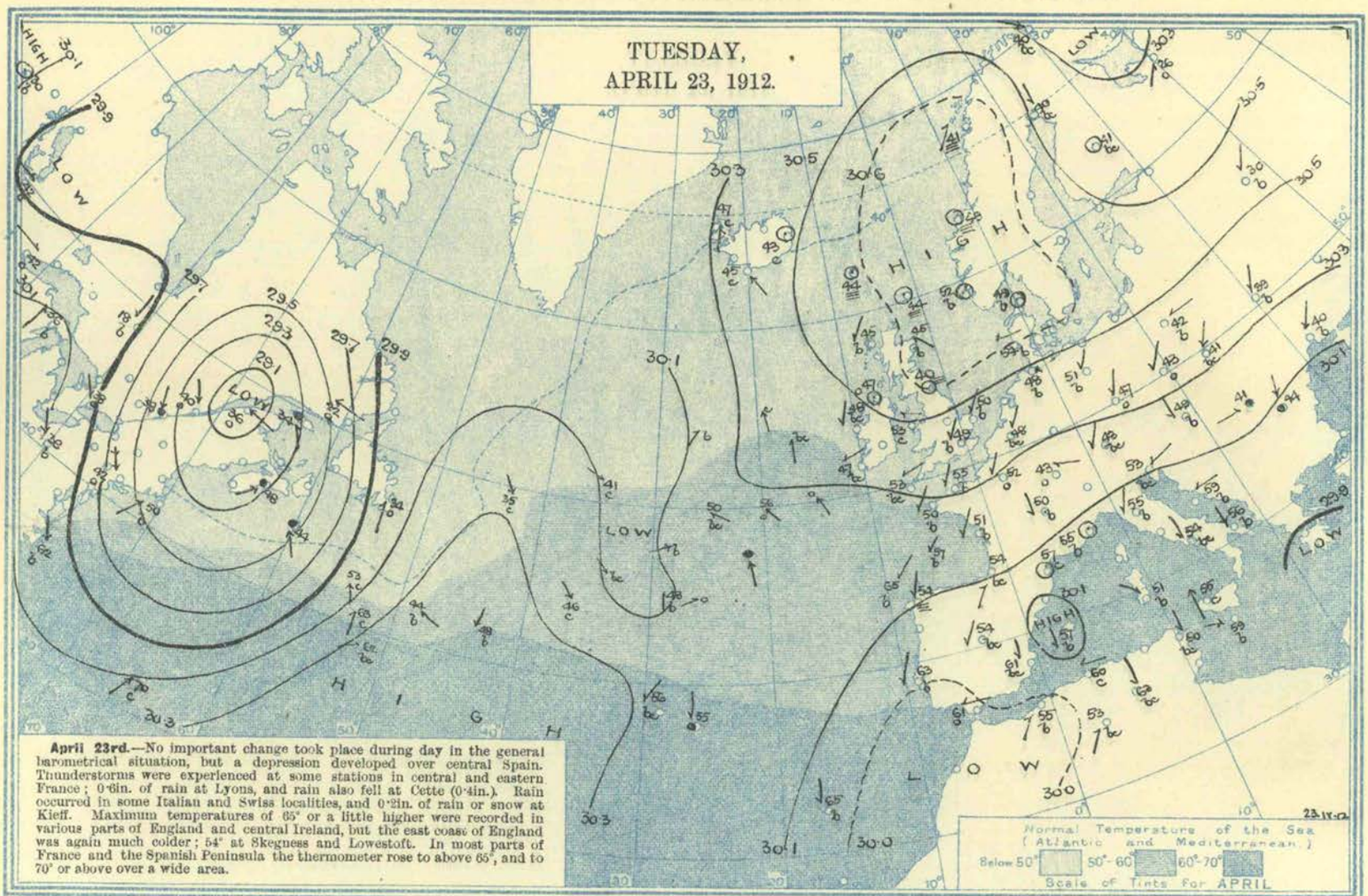
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



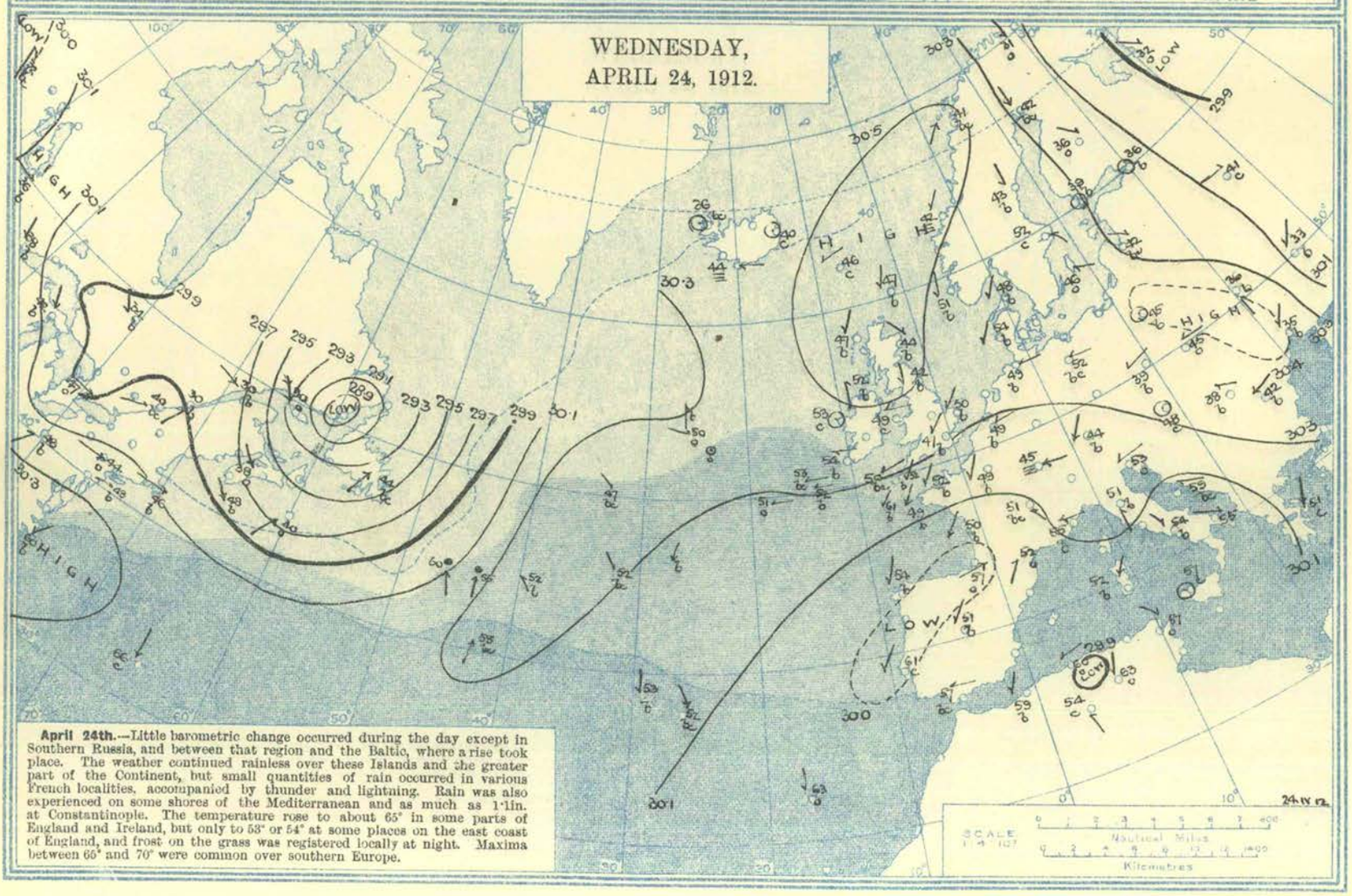
April 21st.—An anticyclone on the Atlantic and another over Scandinavia both increased somewhat in intensity during day. Rain was experienced in Ireland and a few localities in Scotland—as much as 0·46in. at Donaghadee. Rain, generally slight, also fell in the south of France, and some parts of Italy, Spain, and the south of Russia; at Patras there was as much as 0·67in. Maximum temperatures of 70° or a very little below were recorded over a large portion of England, but at night the minima were low; at the Kew Observatory slight frost occurred on the grass. Maxima of about 70° were common in France, the Netherlands, and Spanish Peninsula, but in central Europe and also in Italy they were lower; 59° at Prague, and 52° at Turin.



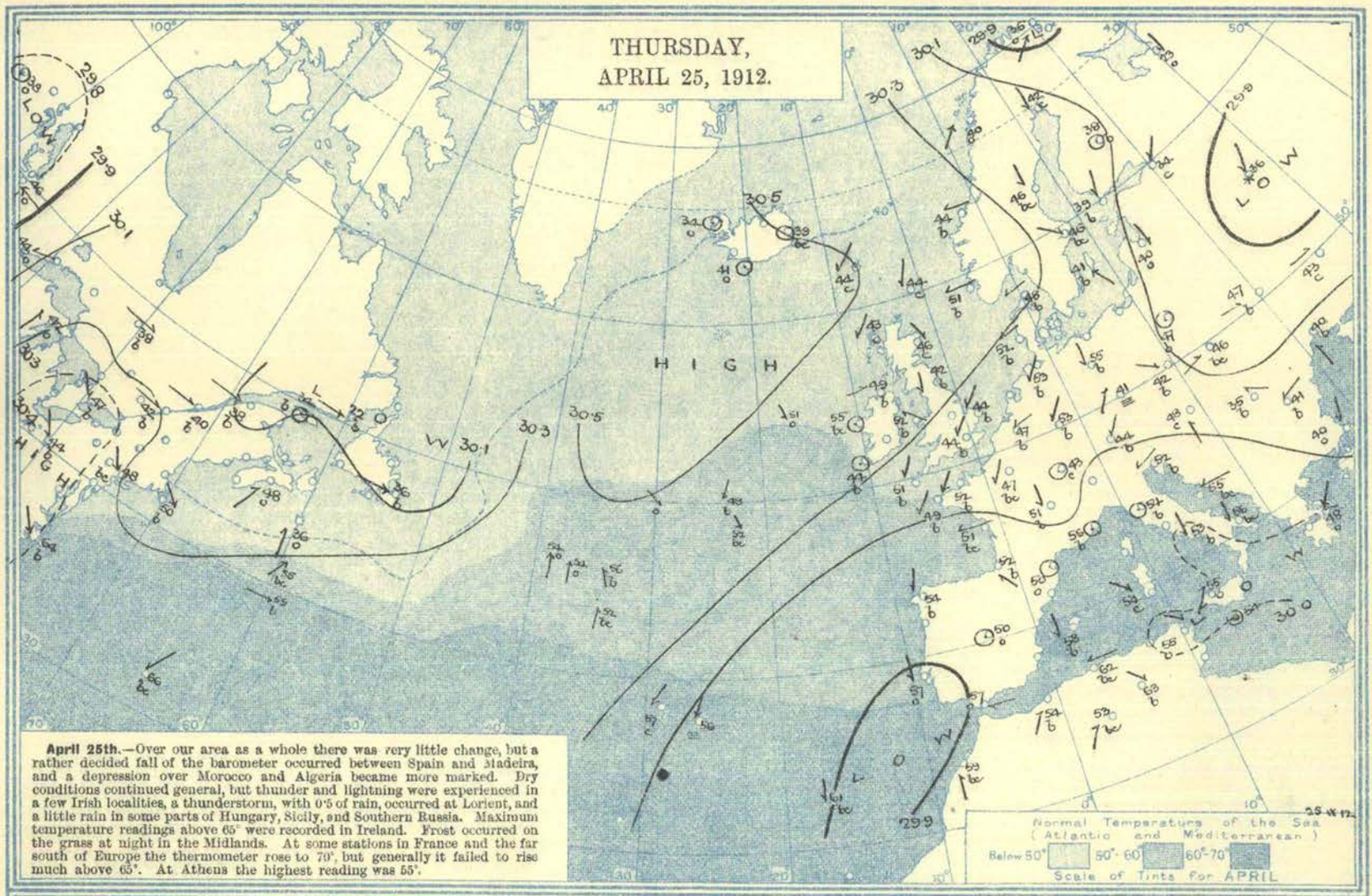
April 22nd.—Very little modification occurred during day in the general distribution of pressure; barometer fell somewhat in Scandinavia. A little rain fell in a few parts of Ireland, the south of France and Austria, and 0·4in. at Lugano. The thermometer again rose to about 70° in various parts of England, but remained below 56° at some east coast stations. Minimum readings were rather higher in England, and lower in Scotland. In France the maxima were 70° or above in the west and south-west and similar values were recorded in the far south of Europe, 72° at Lisbon and Cagliari, and 77° at San Fernando. Throughout the central countries and in Italy the maximum readings were not, as a rule, much above 60°.



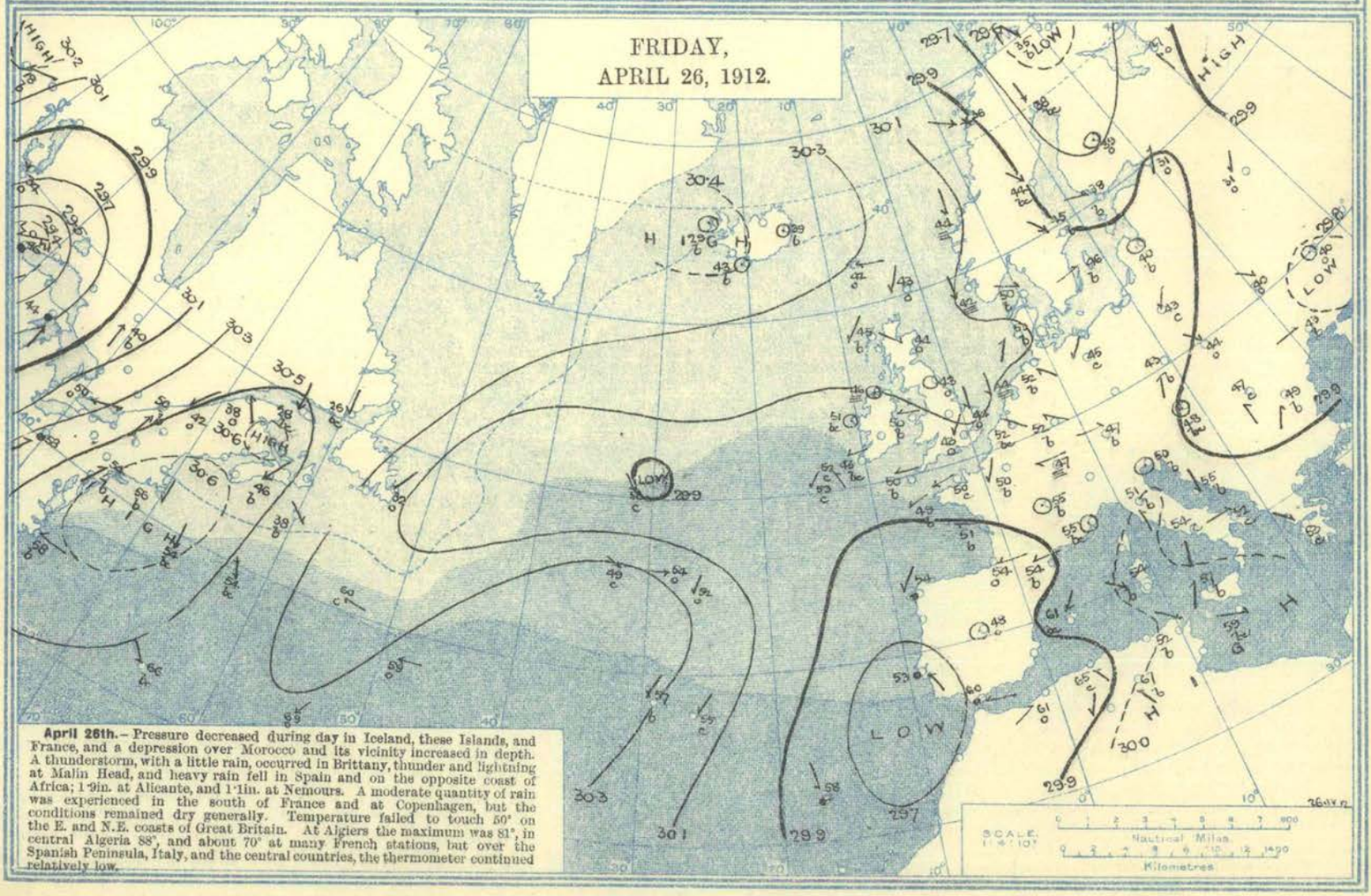
April 23rd.—No important change took place during day in the general barometrical situation, but a depression developed over central Spain. Thunderstorms were experienced at some stations in central and eastern France; 0·6in. of rain at Lyons, and rain also fell at Cette (0·4in.). Rain occurred in some Italian and Swiss localities, and 0·2in. of rain or snow at Kieff. Maximum temperatures of 65° or a little higher were recorded in various parts of England and central Ireland, but the east coast of England was again much colder; 54° at Skegness and Lowestoft. In most parts of France and the Spanish Peninsula the thermometer rose to above 65°, and to 70° or above over a wide area.



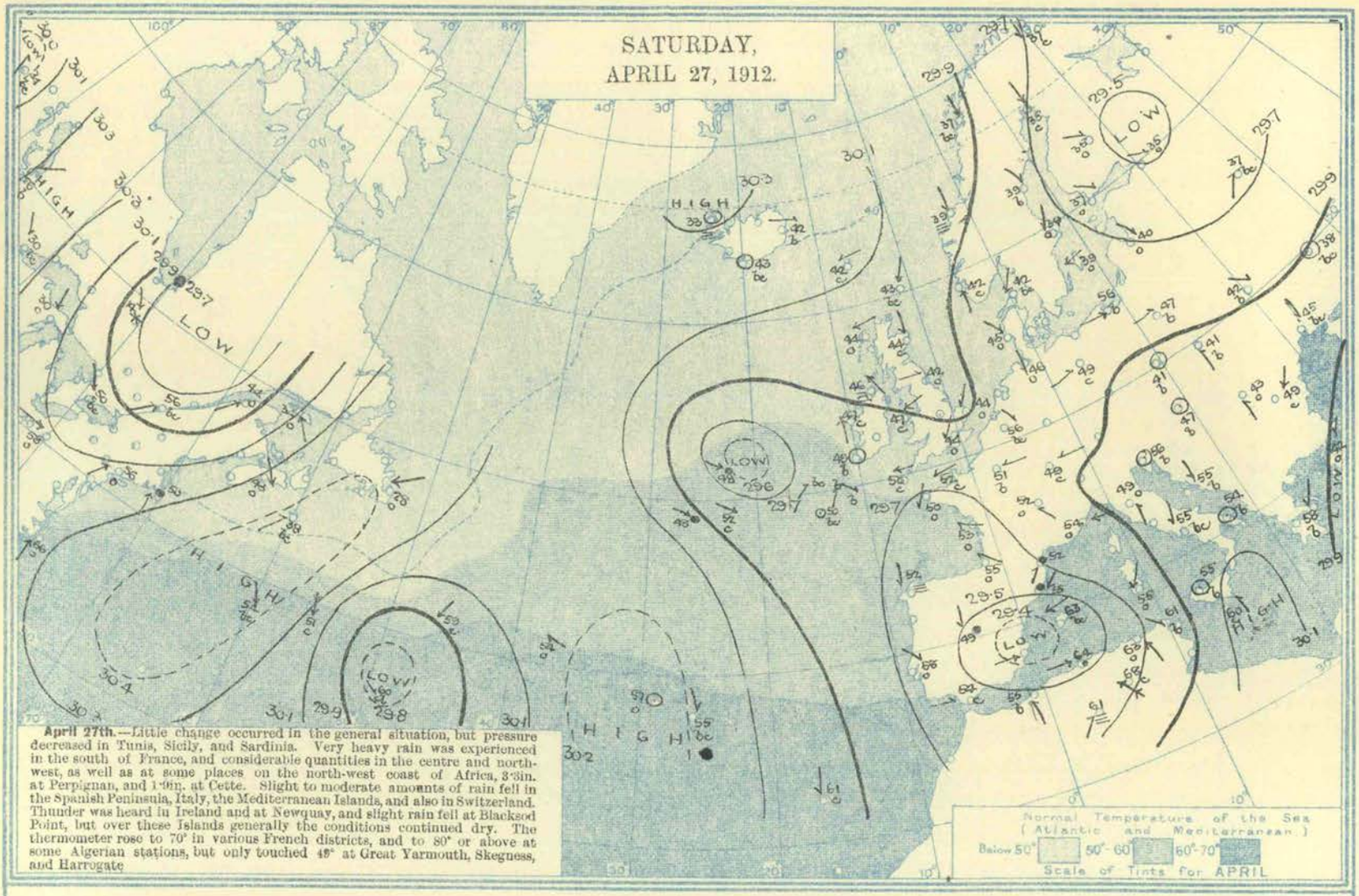
April 24th.—Little barometric change occurred during the day except in Southern Russia, and between that region and the Baltic, where a rise took place. The weather continued rainless over these Islands and the greater part of the Continent, but small quantities of rain occurred in various French localities, accompanied by thunder and lightning. Rain was also experienced on some shores of the Mediterranean and as much as 1·1in. at Constantinople. The temperature rose to about 65° in some parts of England and Ireland, but only to 53° or 54° at some places on the east coast of England, and frost on the grass was registered locally at night. Maxima between 66° and 70° were common over southern Europe.



April 25th.—Over our area as a whole there was very little change, but a rather decided fall of the barometer occurred between Spain and Madeira, and a depression over Morocco and Algeria became more marked. Dry conditions continued general, but thunder and lightning were experienced in a few Irish localities, a thunderstorm, with 0·5 of rain, occurred at Lorient, and a little rain in some parts of Hungary, Sicily, and Southern Russia. Maximum temperature readings above 65° were recorded in Ireland. Frost occurred on the grass at night in the Midlands. At some stations in France and the far south of Europe the thermometer rose to 70°, but generally it failed to rise much above 65°. At Athens the highest reading was 55°.

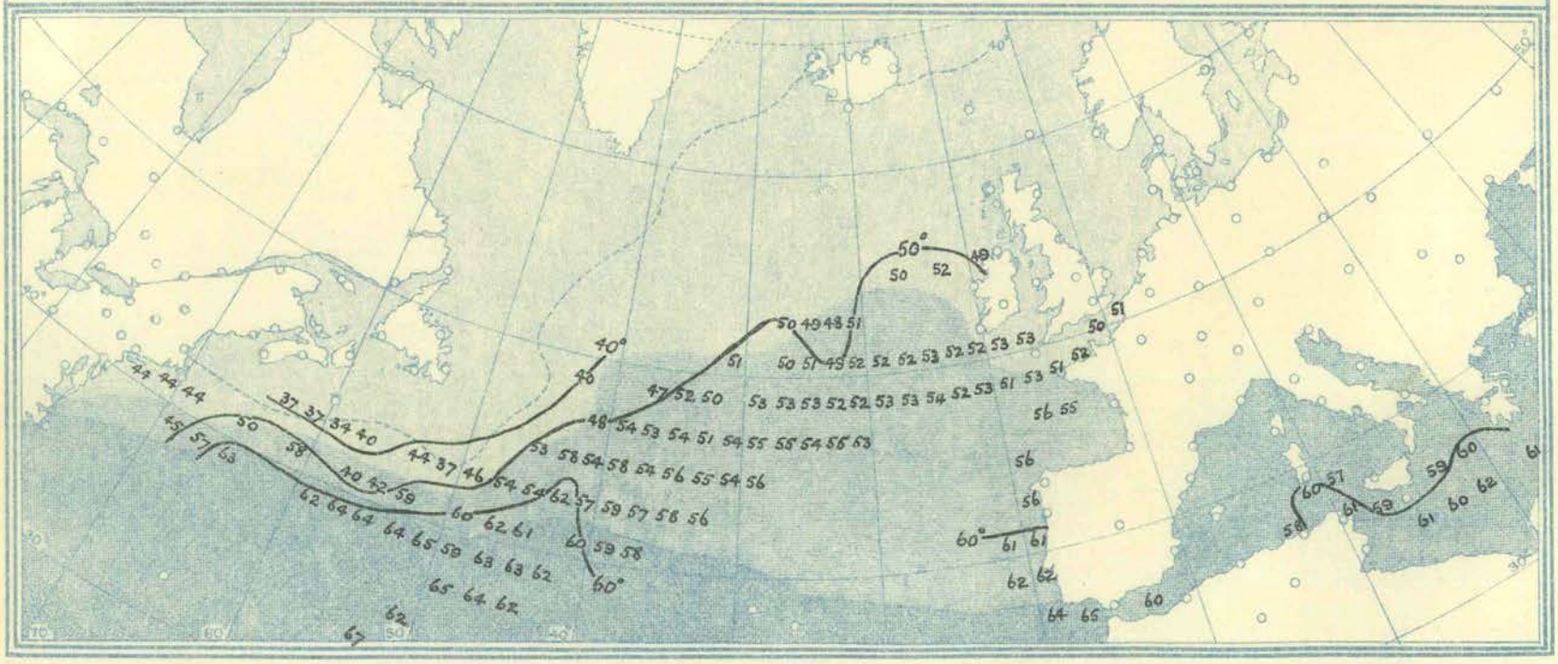


April 26th.—Pressure decreased during day in Iceland, these Islands, and France, and a depression over Morocco and its vicinity increased in depth. A thunderstorm, with a little rain, occurred in Brittany, thunder and lightning at Malin Head, and heavy rain fell in Spain and on the opposite coast of Africa; 1·9in. at Alicante, and 1·1in. at Nemours. A moderate quantity of rain was experienced in the south of France and at Copenhagen, but the conditions remained dry generally. Temperature failed to touch 50° on the E. and N.E. coasts of Great Britain. At Algiers the maximum was 81°, in central Algeria 88°, and about 70° at many French stations, but over the Spanish Peninsula, Italy, and the central countries, the thermometer continued relatively low.



April 27th.—Little change occurred in the general situation, but pressure decreased in Tunis, Sicily, and Sardinia. Very heavy rain was experienced in the south of France, and considerable quantities in the centre and north-west, as well as at some places on the north-west coast of Africa, 3·3in. at Perpignan, and 1·9in. at Cette. Slight to moderate amounts of rain fell in the Spanish Peninsula, Italy, the Mediterranean Islands, and also in Switzerland. Thunder was heard in Ireland and at Newquay, and slight rain fell at Blacksod Point, but over these Islands generally the conditions continued dry. The thermometer rose to 70° in various French districts, and to 80° or above at some Algerian stations, but only touched 49° at Great Yarmouth, Skegness, and Harrogate

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 27TH. APRIL, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 18. EIGHTEENTH WEEK, SUNDAY, APRIL 28TH, TO SATURDAY, MAY 4TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather continued dry generally, but slight rain was experienced at times in the north-west and east, and late in the week rain fell in almost all parts of the Kingdom.

Temperature differed little from the average over the Kingdom as a whole, but was 2° above it in Ireland S. and 1°·5 above it in the English Channel, while in Scotland N. and England N.W. it was 1° below it. The highest of the maxima were recorded at most stations on May 2nd or 3rd, and ranged from 70° in England E., 69° in Scotland E. and 68° in England S.E. and the English Channel, to 62° in Ireland N., 61° in Scotland W. and 60° in Scotland N. Late in the week the maxima along the east coast of Great Britain were about 50°. The absolute minima, recorded early in the week, were low for the time of the year. In England S.W. (at Llangammarch Wells) the sheltered thermometer fell to 24°, in England S.E. to 26°, and in several other districts to 27° or 28°. Frost was experienced in all districts except the English Channel. The lowest grass readings reported were 16° at Newton Rigg, 17° at Wisley, and 18° at West Linton, Birmingham and Llangammarch Wells. The temperature of the soil continued above the average in all parts of the Kingdom, both at 1 foot and 4 feet below the surface.

Mean Temperature of the Sea. The water was warmer than during the corresponding week of last year at all stations except Kirkwall and Sheephaven, and was above the average at all stations. The means for the week ranged from 55° at Scilly and above 50° on all parts of the south-western and southern coasts, to 46° at Lerwick and to 44° at Burnmouth.

Rainfall was much less than the average. In England S.W. the total amount was only 0·1 in., and in England N.E. and S.E., and also in the English Channel, less than 0·1 in. At Durham, Dungeness, and Ventnor the week was rainless.

Bright Sunshine just equalled the normal in Scotland W., and was slightly above it in Scotland N., but in all other districts it was deficient. The mean daily duration was no higher than 3·5 hours in Scotland E. and the Midland Counties, but 6 hours in England S.E. and 7·5 hours in the English Channel. The percentage of the possible duration ranged from 52 in the English Channel and 41 in England S.E. to 24 in the Midland Counties, and to 23 in Scotland E.

Barometer and Wind. The pressure distribution was mainly anticyclonic, the area of highest readings being at first to the northward, and subsequently to the southward of these Islands. After Tuesday, however, the centre of a depression of slight intensity travelled eastwards beyond Scotland, and towards the end of the week a large shallow disturbance extended over our western and southern districts from the south-westward. The wind was almost continuously light or moderate in force, but rather variable in direction. During the early days of the week it was mainly Northerly to North-Easterly, but by Wednesday it drew into the Southward in the west, and on Thursday it was between South and West over the Kingdom generally. By the end of the period it had again shifted to the Northward in the north-east, and had become Easterly in most other parts of these Islands.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 71.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Unusual
	Rainfall ...	Moderate	Light	Very light	Moderate	Light	Light	Light	Light	Very light	Moderate	Light	Light
	Sunshine ...	Moderate	Scanty	Scanty	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate

THE SEASON.

*In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 9 weeks from March 3rd, 1912.	Warmth ...	5 * 1	6 * 0	6 * 0	6 * 0	6 * 0	5 * 0	5 * 1	6 * 0	5 * 0	6 * 0	6 * 0	6 * 0
	Rainfall ...	3 * 3	2 * 3	3 * 6	2 * 5	3 * 6	2 * 5	2 * 3	3 * 3	3 * 4	2 * 2	2 * 3	3 * 4
	Sunshine ...	3 * 1	3 * 2	2 * 4	3 * 2	3 * 3	6 * 2	2 * 1	4 * 2	2 * 3	2 * 5	2 * 3	2 * 3

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(24242—24.) Wt. 173—814. 450. 5/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.					Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*49*	*2nd*	*35*	*4th*	*46·1*	*38·4*	*42·1*	—	*16*	*10*	•	•					*6*	*0·58*	—	*2·9*	—	*18*	—	*Baltasound.*
a, Islands .. *a* Lerwick	51	2nd	37	3rd	46·1	39·0	42·4	− 0·7	15	8	•	•	•	•	•	•	3	0·42	—	4·1	− 1·3	26	− 8	Deerness.
a Stornoway	56	1st	38	28, 29, 4	52·1	40·6	46·1	+ 1·3	35	4	•	•	•	•	•	•	4	0·19	− 0·43	7·2	+ 1·5	47	+10	Stornoway.
a Castlebay, Barra Isd. ..	*52*	*2nd*	*41*	*29th*	*50·6*	*43·3*	*46·8*	− *1·2*	*34*	*0*	•	•	•	•	•	•	*4*	*0·59*	—	*6·6*	—	*43*	—	*Castlebay.*
a Wick	53	1st	33	4th	47·6	39·4	43·3	− 1·7	20	7	•	•	•	•	•	•	4	0·58	+ 0·13	•	•	•	•	
b, Mainland. *p* Strathpeffer ..	56	1st	32	30th	53·1	37·4	44·9	− 0·9	40	13	•	•	•	•	•	•	5	0·16	− 0·28	4·5	− 0·7	29	− 4	Strathpeffer.
p Glencarron ..	55	30th	31	28th	50·3	37·0	43·3	− 1·3	30	14	•	•	•	•	•	•	4	1·34	+ 0·12	•	•	•	•	
p Fort Augustus..	59	30th	28	28th	53·1	38·7	45·6	0·0	39	9	•	•	•	•	•	•	3	0·15	− 0·38	4·9	+ 0·8	32	+ 5	Fort Augustus.
p Fort William ..	60	28, 29	29	28th	56·9	38·7	47·4	+ 0·7	52	9	•	•	•	•	•	•	3	0·52	− 0·36	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	60	1st	33	4th	54·1	39·4	46·4	+ 0·3	42	7	4	20	47·9	+2·6	46·1	+2·5	—	—	—	3·3	—	22	—	Crathes S.
a Nairn	60	1st	27	30th	53·6	36·3	44·5	− 1·5	41	16	•	•	•	•	•	•	4	0·34	− 0·04	*4·1*	—	*27*	—	*Gordon Castle.*
a Aberdeen ..	61	2nd	33	4th	53·9	40·0	46·6	+ 0·9	41	6	•	•	•	•	•	•	5	0·21	− 0·16	5·2	—	34	—	Nairn.
a Balmoral ..	63	29, 1	27	4th	60·1	32·9	45·9	+ 3·1	66	25	5	23	•	•	46·1	+2·7	3	0·12	− 0·35	3·9	− 1·8	26	−12	Aberdeen.
p Crieff	61	28th	31	28th	54·6	39·4	46·6	− 0·3	43	7	•	•	•	•	•	•	2	0·05	− 0·47	•	•	•	•	Balmoral.
a Leith	62	1st	40	28th	54·3	42·7	48·2	+ 1·2	43	0	•	•	•	•	•	•	4	0·27	− 0·25	3·3	—	22	—	Balruddery.
p West Linton .. S	58	1st	27	28th	52·7	35·4	43·6	− 0·3	39	18	4	18	•	•	•	•	2	0·02	− 0·32	•	•	•	•	
p Marchmont .. S	69	2nd	35	1st	53·0	38·4	45·4	+ 0·6	39	10	1	30	47·6	+2·6	•	•	2	0·33	—	*3·3*	—	*22*	—	*West Linton.*
																	2	0·02	− 0·51	1·8	− 3·4	12	−23	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	61	2nd	32	1st	52·4	39·0	45·4	− 0·3	36	8	3	25	48·0	+3·1	47·0	+3·0	4	0·04	− 0·41	3·5	—	23	—	Cockle Park.
a Shields	60	2nd	34	1st	53·4	37·9	45·3	− 0·8	40	11	•	•	•	•	•	•	4	0·10	− 0·26	•	•	•	•	*Newcastle.*
p Durham	60	2nd	32	1st	53·0	39·3	45·8	0·0	38	8	1	27	•	•	•	•	0	0·00	− 0·38	2·3	− 2·7	15	−18	Durham.
a, North .. *p* Rounton	58	1st	32	30, 1	51·9	37·4	44·3	− 1·9	35	13	4	25	47·8	•	•	•	3	0·04	− 0·30	•	•	•	•	Rounton.
a West Witton ..	*57*	*3rd*	*29*	*30, 1*	*52·3*	*37·0*	*44·3*	—	*37*	*14*	2	24	46·7	•	44·7	•	*3*	*0·07*	—	•	•	•	•	*West Witton.*
p Scarborough ..	61	1st	37	2nd	54·7	40·9	47·5	+ 0·9	43	3	•	•	•	•	•	•	3	0·07	− 0·33	4·5	—	30	—	Scarborough.
p York	62	3rd	33	30th	54·7	38·6	46·3	− 2·1	44	10	•	•	49·0	+1·9	47·9	+2·5	1	0·12	− 0·30	2·3	− 2·8	15	−19	York.
a Spurn Head ..	61	2nd	38	1st	52·3	41·9	46·9	− 0·5	35	0	3	23	48·4	+1·5	46·6	+1·7	2	0·02	− 0·27	*3·4*	—	*23*	—	
b, South .. *a* Lincoln	64	2nd	33	30th	55·6	39·6	47·2	− 1·4	46	7	•	•	50·3	+3·1	48·4	+2·9	2	0·11	− 0·27	•	•	•	•	*Hull.*
a Fulbeck	66	2nd	31	1st	57·0	39·0	47·6	− 0·7	52	8	3	20	52·9	+2·8	49·2	+2·4	2	0·11	− 0·29	4·2	—	28	—	Lincoln.
											•	•	•	•	•	•	—	—	—	6·2	—	42	—	Rauceby.
3. ENGLAND, E.											0	31	51·5	+2·1	49·5	+2·3	—	—	—	*7·2*	—	*49*	—	Skegness.
p Cromer	68	2nd	38	1st	56·4	42·0	48·9	+ 2·2	48	0	•	•	•	•	•	•	5	0·09	—	6·4	—	43	—	*Lowestoft.*
p Hillington ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Cromer.
a, North .. *a* Yarmouth ..	65	2nd	41	1st	54·0	44·0	48·8	+ 1·6	48	0	•	•	53·9	+2·8	51·4	+2·1	3	0·21	− 0·15	7·5	—	51	—	Hillington.
a Norwich	66	2nd	32	30, 1	56·3	40·1	47·8	+ 0·1	49	5	3	26	51·2	•	•	•	4	0·14	—	*5·0*	—	*34*	—	Yarmouth.
p Geldeston ..	67	2nd	29	1st	56·6	39·7	47·7	− 0·3	50	6	•	•	•	•	•	•	4	0·08	− 0·30	5·0	− 1·3	34	− 9	*Norwich.*
																								Geldeston.
p Cambridge	66	2nd	32	1st	57·6	40·4	48·6	− 0·5	53	4	2	26	52·4	+2·8	50·5	+2·5	2	0·10	− 0·27	5·0	− 1·0	34	− 7	Cambridge.
a Felixstowe ..	*63*	*3rd*	*37*	*29, 30*	*54·4*	*41·7*	*47·8*	− *0·4*	*42*	*1*	•	•	•	•	•	•	*4*	*0·22*	—	*5·7*	—	*39*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	61	2, 3	38	29, 30	54·6	43·1	48·6	+ 0·7	46	0	0	32	51·1	+2·1	50·7	+2·1	3	0·21	—	5·1	—	35	—	Clacton.
a Rothamsted ..	67	2nd	31	1st	59·9	39·1	49·0	+ 0·8	61	8	•	•	•	•	•	•	2	0·40	0·00	5·0	− 0·7	34	− 5	Rothamsted.
a Shoeburyness ..	*63*	*2nd*	*35*	*30th*	*56·0*	*42·7*	*49·0*	− *1·0*	*49*	*0*	1	28	54·0	+3·8	•	•	*3*	*0·13*	− *0·13*	*5·5*	—	*37*	—	*Southend.*
p Tottenham ..	70	2nd	36	30, 1	59·4	42·6	50·6	+ 1·2	60	0	0	32	•	•	51·6	+3·8	1	0·24	—	5·0	—	34	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	60	3rd	30	1st	53·6	37·1	45·0	− 1·4	42	14	3	27	48·6	+1·9	45·9	+2·4	—	—	—	*4·0*	—	*27*	—	*Huddersfield.*
a Bawtry	62	1, 2	30	30, 1	56·9	37·4	46·7	− 1·6	52	13	4	24	47·1	+2·0	46·5	+1·9	3	0·07	− 0·40	3·8	—	25	—	Harrogate.
p Buxton	*61*	*2, 3*	*31*	*28, 30*	*54·1*	*38·6*	*46·0*	+ *1·4*	*42*	*10*	4	20	49·3	•	48·4	•	3	0·16	− 0·20	3·5	− 1·4	24	−10	Worksop.
a East .. *a* Nottingham ..	64	2nd	38	1st	55·0	37·7	45·9	− 2·4	45	12	6	22	48·0	+1·5	46·0	+1·8	*3*	*0·13*	− *0·54*	*3·9*	—	*26*	—	*Buxton.*
p Birmingham, Edgbsn.	60	2nd	37	30, 1	55·1	41·3	47·9	− 0·3	44	2	2	24	49·2	+1·6	47·5	+2·4	2	0·12	− 0·26	1·8	—	12	—	Nottingham.
a Raunds	67	1, 2	31	1st	58·3	39·6	48·5	+ 0·2	56	7	3	18	47·6	+2·3	47·0	+2·1	3	0·30	− 0·15	1·9	—	13	—	Birmingham.
a Oxford	63	2nd	32	30th	57·4	40·3	48·4	− 1·1	52	5	3	20	49·5	•	47·9	•	2	0·08	—	•	•	•	•	Raunds.
											3	20	•	•	•	•	2	0·42	+ 0·05	4·6	− 1·1	31	− 8	Oxford.
a Cheadle	63	3rd	36	28th	56·7	42·1	49·1	+ 2·1	50	0	3	28	47·4	+1·1	46·2	+2·1	—	—	—	2·5	—	17	—	Sheffield.
p Shrewsbury ..	61	2nd	30	28th	57·0	38·7	47·4	− 1·6	52	9	3	27	•	•	•	•	1	0·02	− 0·44	•	•	•	•	Cheadle.
b, West .. *a* Hereford ..	62	2, 3	30	29th	57·1	38·5	47·4	− 1·8	53	10	2	28	•	•	•	•	1	0·15	—	•	•	•	•	Shrewsbury.
a Cirencester ..	65	3rd	31	1st	58·1	38·1	47·6	− 0·1	56	11	4	24	•	•	•	•	3	0·21	− 0·23	•	•	•	•	Hereford.
a Bath	64	2nd	30	30th	59·3	39·4	48·9	− 0·6	59	7	2	28	51·2	•	48·8	•	2	0·12	− 0·32	4·8	− 1·2	33	− 8	Cirencester.
											•	•	52·7	+2·6	51·1	+2·6	1	0·05	− 0·39	5·4	—	37	—	Bath.
5. ENGLAND, S.E.																								
p Kew	65	2nd	37	30th	57·4	43·1	49·9	+ 0·5	55	0	0	31	54·1	+5·4	51·5	+3·3	—	—	—	•	•	•	•	Canterbury.
a Marlborough ..	64	2nd	26	30th	57·1	36·9	46·5	− 1·1	53	14	3	22	51·3	+2·0	49·6	+2·0	1	0·12	− 0·23	5·2	− 0·6	35	− 4	Kew.
a Margate	63	2nd	33	1st	55·6	42·9	49·0	0·0	49	0	3	21	•	•	•	•	1	0·10	− 0·33	4·9	− 0·5	33	− 5	Marlborough.
a Wisley, Surrey ..	68	2nd	31	30th	58·9	41·0	49·5	− 0·2	57	3	—	—	49·4	+0·8	48·7	+1·7	3	0·28	− 0·04	5·5	− 0·3	37	− 2	Margate.
a Swarraton	63	2nd	32	30th	58·4	38·0	47·7	− 0·1	57	11	3	17	52·1	+3·0	50·0	+2·4	1	0·08	—	5·9	—	40	—	Wisley
a Tunbridge Wells ..	66	2nd	34	30th	57·3	40·7	48·6	+ 0·1	52	4	0	31	53·2	+2·5	51·0	+2·7	2	0·12	− 0·33	6·1	—	42	—	Worthing.
a Dungeness	63	3rd	37	29, 30	55·9	42·9	49·1	+ 0·6	50	0	2	27	51·6	+1·9	•	•	1	0·04	− 0·36	5·6	− 0·5	38	− 4	Tunbridge Wells.
p Hastings..	59	2nd	38	30th	55·6	42·9	49·0	− 0·2	49	0	0	•	•	•	•	•	0	0·00	− 0·29	6·4	—	44	—	Littlestone.
p Southampton ..	66	2nd	36	30th	60·1	41·7	50·5	− 0·2	61	1	0	32	52·9	•	50·7	•	2	0·02	− 0·34	*6·2*	− *0·5*	*43*	− *3*	*Hastings.*
a Ventnor	61	2nd	37	29, 30	57·7	42·6	49·8	− 0·6	55	0	2	30	•	•	•	•	1	0·02	− 0·42	6·0	− 0·3	42	− 2	Southampton.
											0	•	•	•	•	•	0	0·00	− 0·37	8·2	+ 1·4	57	+10	Ventnor.
											0	33	54·3	+3·0	52·0	+2·5	—	—	—	*7·0*	—	*49*	—	*Portsmouth.*
											•	•	52·7	•	51·1	•	—	—	—	6·6	0·0	46	0	Eastbourne.
											•	•	51·0	•	50·7	•	—	—	—	*7·8*	—	*54*	—	*Bournemouth.*
LONDON.											0	31	•	•	51·4	•	—	—	—	*6·0*	—	*42*	—	*Brighton.*
a Westminster	*63*	*1st*	*40*	*30th*	*58·1*	*44·7*	*51·1*	+ *0·9*	*64*	*0*	0	34	•	•	•	•	*3*	*0·23*	− *0·12*	*4·8*	− *0·1*	*33*	+ *1*	*Westminster.*
a Greenwich	*71*	*2nd*	*36*	*30th*	*60·6*	*42·4*	*51·1*	+ *1·3*	*64*	*0*	2	23	•	•	•	•	*3*	*0·31*	− *0·11*	*4·7*	− *0·8*	*32*	− *5*	*Greenwich.*
a Hampstead	*67*	*2nd*	*35*	*30th*	*57·6*	*41·9*	*49·4*	—	*52*	*0*	3	27	•	•	•	•	*2*	*0·29*	—	*5·4*	—	*37*	—	*Hampstead.*
a Camden Square ..	*69*	*2nd*	*37*	*30th*	*61·3*	*43·4*	*51·9*	—	*69*	*0*	0	32	•	•	•	•	*3*	*0·32*	—	*5·2*	—	*35*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	55	28, 30, 3	36	29th	54·3	42·4	48·1	+ 0·7	43	0	•	•	•	•	•	•	2	0·54	− 0·06	•	•	•	•	
p Glasgow	57	28th	36	28th	54·4	42·6	48·2	+ 0·7	43	0	1	27	•	•	•	•	2	0·18	− 0·24	4·0	− 0·8	27	− 5	Glasgow.
p Rothesay .. S	59	3rd	39	28th	56·4	43·6	49·7	+ 2·0	54	0	•	•	•	•	47·7	+2·4	2	0·37	− 0·28	•	•	•	•	
a Kilmarnock ..	60	1st	27	28th	56·0	40·7	48·0	+ 0·8	47	4	•	•	•	•	•	•	1	0·17	—	*4·7*	*0·0*	*31*	*0*	*Kilmarnock.*
a Colmonell ..	61	1st	29	28th	56·3	38·0	46·7	− 0·8	50	11	3	24	•	•	•	•	3	0·31	− 0·25	•	•	•	•	
p Dumfries ..	58	3rd	32	28th	54·0	40·6	47·0	− 0·7	41	4	3	25	49·7	•	49·0	•	4	0·15	− 0·39	*3·3*	—	*22*	—	*Dumfries.*
p Cally, Gatehouse S	59	3rd	30	30th	55·0	37·0	45·6	− 1·6	46	14	•	•	•	•	•	•	4	0·60	− 0·09	•	•	•	•	
b I. OF MAN.																								
p Douglas	56	2, 3	38	30th	53·0	41·1	46·8	− 0·2	37	3	0	33	•	•	•	•	3	0·29	− 0·29	7·1	—	47	—	Douglas.
											4	20	48·0	+2·1	46·1	+2·0	—	—	—	*4·5*	—	*30*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											2	25	•	•	•	•	—	—	—	4·7	—	32	—	Hoylake.
p Aspatria	56	1, 3	32	28th	53·4	38·9	45·8	− 0·7	40	9	3	22	49·8	•	47·1	•	3	0·59	+ 0·06	4·3	—	29	—	Aspatria.
p Newton Rigg ..	57	2, 3	29	28th	53·7	38·1	45·5	− 0·3	41	11	4	16	49·1	+2·7	46·4	+2·2	4	0·41	− 0·11	3·9	− 1·8	26	−12	Newton Rigg.
p Stonyhurst ..	57	3rd	33	30th	53·3	40·3	46·5	− 0·4	39	5	3	23	•	•	•	•	3	0·24	− 0·39	4·7	− 0·8	31	− 5	Stonyhurst.
p Blackpool	58	2nd	30	28th	53·4	39·1	45·9	− 1·8	39	8	3	•	•	•	•	•	2	0·08	− 0·38	5·5	− 0·4	37	− 2	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	60	2nd	37	28th	53·9	41·6	47·5	− 0·7	40	1	•	•	•	•	•	•	2	0·04	− 0·36	*3·4*	—	*23*	—	*Liverpool.*
a Hawarden Bridge ..	63	2nd	34	29th	55·0	41·3	47·8	− 1·6	44	2	4	21	51·0	+0·8	49·2	+1·1	2	0·08	− 0·28	*4·5*	− *1·7*	*30*	−*12*	*Southport.*
											0	36	48·7	+2·4	48·7	+2·8	—	—	—	*2·9*	—	*20*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	62	2nd	38	29, 30	54·1	43·3	48·4	− 0·3	45	0	•	•	•	•	•	•	3	0·15	− 0·26	5·0	− 0·9	34	− 6	Llandudno.
a Holyhead	58	4th	41	28, 30	54·1	44·7	49·2	+ 1·1	50	0	•	•	•	•	•	•	4	0·17	− 0·30	4·3	—	29	—	Aberdovey.
p Bettws-y-Coed ..	59	2nd	30	1st	54·0	37·3	45·3	− 3·0	43	13	0	31	49·3	+2·5	48·1	+2·3	3	0·25	—	4·0	—	27	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.															**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				4·8	—	33	—	Aberystwyth.
a Llangammarch Wells	60	2nd	24	30th	55·7	36·6	45·7	− 1·3	49	15	4	18	48·5	+1·1	47·1	+1·2	4	0·22	—	3·8	—	26	—	Llangammarch
a Pembroke	57	28, 29	41	29, 30	55·3	45·3	50·1	+ 1·9	57	0	*	*	*	*	*	*	3	0·23	− 0·20	6·1	− 0·4	42	− 3	Pembroke.[Wells
p Cardiff	61	2, 3	37	30th	56·9	42·6	49·4	− 0·8	52	0	2	28	51·6	+2·9	49·8	+3·2	1	0·01	− 0·54	*5·1*	—	*35*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	65	3rd	37	29, 30	58·9	43·7	50·9	+ 1·0	62	0	0	33	*	*	*	*	1	0·17	− 0·34	*6·3*	—	*43*	—	*Clifton.*
a Shaftesbury	65	3rd	35	29, 30	57·9	39·7	48·4	+ 0·3	54	6	*	*	52·2	*	*	*	1	0·01	− 0·49	*	*	*	*	Shaftesbury.
a Arlington	60	2nd	35	29th	56·4	40·9	48·3	+ 0·8	49	3	*	*	53·1	*	*	*	2	0·12	− 0·53	6·3	− 0·1	43	− 1	Newquay.
a Cullompton	66	2nd	31	1st	61·3	39·0	49·6	+ 0·3	66	8	2	27	55·2	*	*	*	3	0·06	− 0·45	5·2	− 0·6	36	− 4	Cullompton.
a Portland	57	3rd	40	29th	55·0	44·9	49·7	+ 0·4	54	0	*	*	*	*	*	*	1	0·01	—	*7·9*‖	—	*54*	—	*Weymouth.*
p Plymouth	63	28th	37	1st	59·0	44·1	51·2	+ 0·9	64	0	2	28	55·4	+4·1	*	*	2	0·10	− 0·40	5·8	− 0·6	40	− 4	Plymouth.
p Falmouth	61	2nd	43	29, 30, 1	57·3	45·7	51·2	+ 1·5	64	0	*	*	*	*	*	*	2	0·03	− 0·51	7·6	+ 0·7	52	+ 5	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	58	30th	39	28th	53·7	42·4	47·8	+ 0·8	41	0	*	*	*	*	*	*	2	0·20	− 0·26	*	*	*	*	* *
a Blacksod Point ..	60	4th	40	28, 30	55·0	45·0	49·8	+ 1·3	55	0	*	*	*	*	*	*	3	0·70	+ 0·06	*	*	*	*	* *
p Markree Castle ..	61	1st	31	29th	57·9	42·0	49·6	+ 2·3	53	0	2	25	52·5	*	48·5	*	3	0·33	− 0·27	3·4	− 2·1	23	−14	Markree Castle.
a Birr Castle	62	30, 1	33	29, 30	59·0	41·6	49·9	+ 1·8	57	1	*	*	*	*	*	*	3	0·14	− 0·37	*3·9*	− *1·7*	*26*	−*11*	*Birr Castle.*
b, East .. { *p* Armagh	59	1st	35	28, 30	55·6	40·9	47·9	+ 0·4	46	3	3	25	51·0	+1·8	48·8	+1·6	4	0·46	− 0·06	4·5	− 0·9	30	− 6	Armagh.
a Donaghadee	61	1st	38	30th	53·6	42·4	47·7	+ 0·4	40	0	*	*	*	*	*	*	3	0·30	− 0·19	*	*	*	*	* *
											2	29	51·7	+2·3	49·9	+2·0	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											2	26	*	*	*	*	—	—	—	5·5	− 0·6	37	− 4	Phœnix Park.
a, East .. { *p* Dublin, City	63	1st	37	30th	57·0	45·6	51·0	+ 1·2	63	0	0	33	*	*	*	*	5	0·29	− 0·14	*	*	*	*	Dublin City.
a Kilkenny	64	1st	31	30th	58·9	42·9	50·5	+ 2·1	60	0	*	*	*	*	*	*	4	0·11	− 0·39	*	*	*	*	* *
a Waterford	64	1st	34	30th	60·1	44·4	51·9	+ 3·2	69	0	*	*	*	*	*	*	4	0·39	− 0·14	*	*	*	*	* *
a Birr Castle	62	30, 1	33	29, 30	59·0	41·6	49·9	+ 1·8	57	1	*	*	*	*	*	*	3	0·14	− 0·37	3·9	− 1·7	26	−11	Birr Castle.
a Foynes	63	4th	37	30th	59·9	45·3	52·3	+ 3·0	72	0	*	*	*	*	*	*	5	0·18	− 0·55	*	*	*	*	* *
a Cahir	65	1st	33	29, 30	61·3	43·5	52·0	+ 3·6	70	0	*	*	*	*	*	*	5	0·20	—	*	*	*	*	* *
b, West .. { *a* Killarney	66	28, 4	37	29th	62·2	45·1	53·2	+ 4·3	78	0	*	*	*	*	*	*	5	0·16	− 0·56	*	*	*	*	* *
a Valencia	63	4th	38	29, 30	58·9	45·9	52·1	+ 2·4	71	0	*	*	*	*	*	*	5	0·19	− 0·59	5·4	− 0·6	37	− 4	Valencia.
a Roche's Point	59	29, 1, 3	39	30th	57·6	45·0	51·0	+ 1·2	63	0	*	*	*	*	*	*	4	0·36	− 0·25	5·9	—	40	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	61	2nd	46	29, 30	58·4	47·9	52·9	+ 2·7	76	0	*	*	*	*	*	*	2	0·03	− 0·37	8·0	+ 1·2	55	+ 8	Scilly.
a Jersey, St. Aubins ..	68	4th	36	1st	59·3	45·9	52·3	+ 1·5	72	0	*	*	*	*	*	*	1	0·01	− 0·57	8·1	+ 1·0	56	+ 7	St. Heliers.
a Guernsey (Villa Carey)	60	4th	40	1st	57·0	46·4	51·5	+ 0·9	67	0	0	35	51·9	+3·6	52·7	+3·3	2	0·10	− 0·40	6·5	− 1·1	45	− 8	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·5 hrs. 45 °/₀; Newcastle (Pendower),* hrs. °/₀; *Ramsgate, 5·8 hrs. 40 °/₀; Rhyl, 3·9 hrs. 26 °/₀; Salcombe, 5·7 hrs. 39 °/₀; Tenby, 5·7 hrs. (−0·9) 39 °/₀ (− 6 °/₀); Torquay, 6·2 hrs. (−0·4) 43 °/₀ (−2 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, May 4th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	46	46	46·0	+1·4	SCOTLAND, W. ..	Lamlash	51	46	48·4	+2·7
	Kirkwall	49	48	48·2	+2·9		Ballantrae	53	47	50·9	+4·7
	Wick	47	46	46·6	+1·1	ENGLAND, N.W. ..	Port Erin	50	47	47·9	+1·3
SCOTLAND, E. ..	Cromarty	51	46	49·0	+4·8		Newquay	54	53	53·7	+3·5
	Pennan Bay	48	47	47·4	+2·7	ENGLAND, S.W. ..	Scilly	55	53	54·8	—
	Aberdeen, Cove Bay	47	46	47·0	+2·2		Plymouth‡	54	53	53·5	+4·3
ENGLAND, N.E. ..	Burnmouth, Berwick	44	44	44·0	+0·2		Salcombe	53	50	50·9	+1·9
	Scarborough	53	47	50·1	+5·1	IRELAND, N.W. ..	Sheephaven	50	50	50·0	+1·4
ENGLAND, E. ..	Shipwash Lightship	52	47	49·3	+2·5		Teelin	55	47	51·7	+1·4
	Margate‡	59	52	53·3	+4·1	IRELAND, S.W. ..	Cleggan	52	47	51·5	+2·3
ENGLAND, S.E. ..	Eastbourne‡	53	51	52·1	+3·3		Seafield	55	49	52·7	+2·0
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

EIGHTEENTH WEEK—April 28th to May 4th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	60	28	51·3	38·7	44·7	− 1·0	33	− 4	9	0	4	− 1	0·48	−0·20	5·2	+0·3	34	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	69	27	54·5	38·1	45·9	− 0·2	44	+ 1	11	+ 1	3	− 1	0·17	−0·30	3·5	−1·8	23	−12
2. ENGLAND, N.E.	66	31	53·9	39·3	46·3	− 0·5	41	0	8	+ 3	2	− 1	0·07	−0·34	3·8	−2·0	26	−13
3. ENGLAND, EAST ...	70	29	56·9	41·4	48·8	+ 0·4	50	− 2	2	− 4	3	0	0·18	−0·21	5·6	−0·6	38	− 4
4. MIDLAND COUNTIES ...	67	28	56·8	39·1	47·5	− 0·8	51	− 3	8	− 1	2	− 1	0·15	−0·27	3·5	−2·1	24	−14
5. ENGLAND, S.E.	68	26	57·4	41·3	49·0	− 0·6	52	− 4	2	0	1	− 2	0·08	−0·31	6·0	−0·2	41	− 1
Western.																		
6. SCOTLAND, WEST ...	61	27	54·9	40·8	47·5	+ 0·1	44	− 2	3	− 1	3	− 1	0·33	−0·34	5·6	0·0	37	0
7. ENGLAND, N.W.	63	29	53·9	40·5	46·9	− 1·1	41	− 5	4	+ 1	3	− 1	0·22	−0·29	4·6	−1·1	31	− 8
8. ENGLAND, S.W.	66	24	57·4	42·3	49·5	+ 0·5	53	+ 2	0	− 2	2	− 2	0·10	−0·44	5·7	−0·6	39	− 4
9. IRELAND, NORTH ...	62	31	55·8	42·4	48·8	+ 0·9	48	+ 2	0	− 3	3	− 1	0·36	−0·23	4·0	−1·4	26	− 9
10. IRELAND, SOUTH ...	66	31	59·4	44·4	51·5	+ 2·1	67	+ 13	0	− 2	4	0	0·22	−0·40	5·2	−0·7	35	− 4
11. ENGLISH CHANNEL ...	68	36	58·2	46·7	52·2	+ 1·5	71	+ 10	0	0	2	− 1	0·05	−0·40	7·5	−0·1	52	− 1

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 9 Weeks, March 3rd to May 4th, 1912.

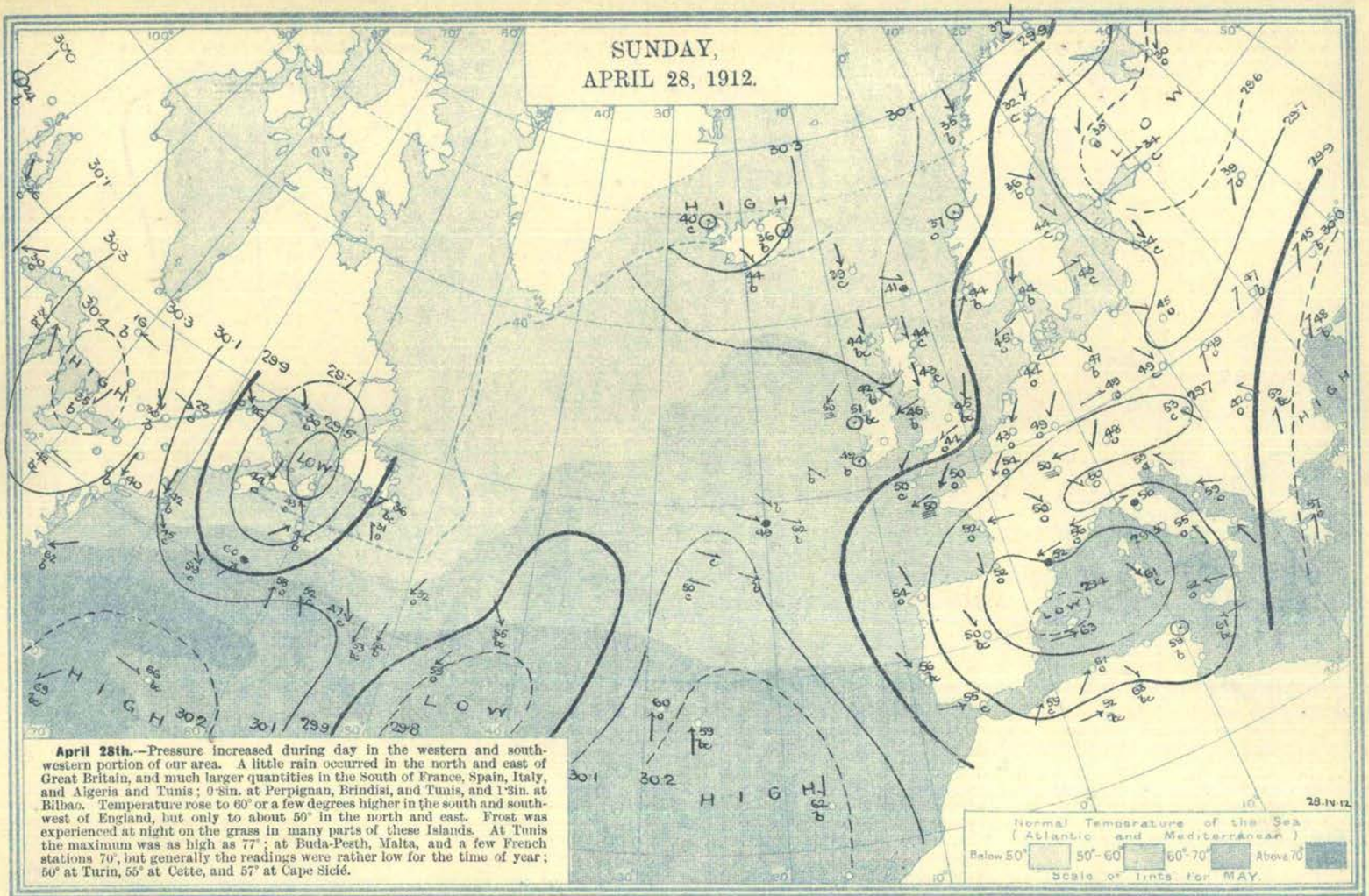
0. SCOTLAND, NORTH ...	71	25	*	*	*	*	227	+ 39	123	− 83	43	+ 1	9·95	+2·48	4·2	+0·2	32	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	70	20	*	*	*	*	306	+ 68	161	− 61	33	− 2	3·40	−0·91	4·7	+0·4	36	+ 3
2. ENGLAND, N.E	71	26	*	*	*	*	332	+ 92	102	− 64	25	− 7	2·38	−1·08	5·0	+0·3	38	+ 2
3. ENGLAND, EAST ...	72	26	*	*	*	*	390	+ 78	67	−107	27	− 3	2·99	−0·24	5·6	+0·7	43	+ 6
4. MIDLAND COUNTIES ...	72	24	*	*	*	*	393	+ 70	101	− 84	25	− 4	3·73	+0·11	4·9	+0·5	37	+ 4
5. ENGLAND, S.E.	70	23	*	*	*	*	402	+ 71	48	− 71	24	− 4	3·61	+0·10	5·9	+1·1	45	+ 8
Western.																		
6. SCOTLAND, WEST ...	71	24	*	*	*	*	306	+ 58	75	− 79	37	+ 2	6·44	+0·03	4·6	+0·1	35	+ 1
7. ENGLAND, N.W.	70	25	*	*	*	*	332	+ 71	67	− 64	29	− 4	4·70	+0·09	4·9	+0·6	38	+ 5
8. ENGLAND, S.W.	71	24	*	*	*	*	377	+ 60	30	− 69	32	− 1	6·08	+0·93	4·8	−0·1	37	− 1
9. IRELAND, NORTH ...	69	30	*	*	*	*	333	+ 56	65	− 59	37	− 1	5·29	+0·04	4·0	−0·3	31	− 2
10 IRELAND, SOUTH ...	70	29	*	*	*	*	408	+ 69	37	− 55	40	+ 5	5·54	+0·20	4·8	0·0	37	0
11. ENGLISH CHANNEL ...	71	35	*	*	*	*	476	+102	3	− 27	36	+ 2	5·76	+1·49	5·7	−0·2	44	− 1

THE YEAR.—Aggregates, &c., for the Period of 18 Weeks, December 31st, 1911, to May 4th, 1912.

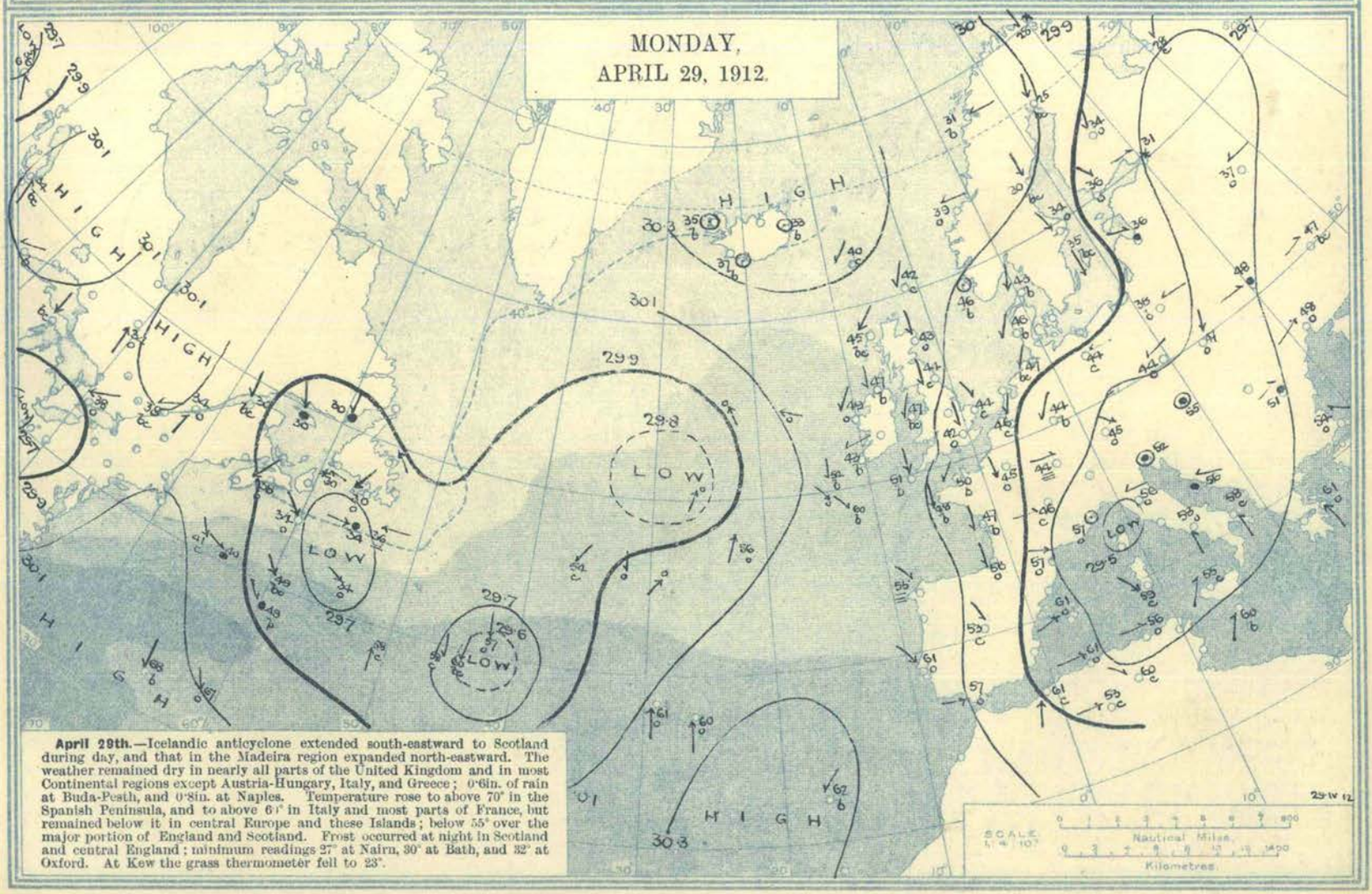
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	301	+ 53	419	−117	87	− 1	17·52	−0·91	2·8	+0·1	27	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	70	−5	*	*	*	*	381	+ 75	504	− 95	76	+ 6	8·79	−0·51	3·1	0·0	29	0
2. ENGLAND, N.E.	71	10	*	*	*	*	433	+113	373	− 94	66	+ 1	6·88	+0·03	3·2	−0·2	30	− 2
3. ENGLAND, EAST ...	72	14	*	*	*	*	522	+120	274	−239	66	+ 2	7·28	+0·68	3·5	0·0	32	0
4. MIDLAND COUNTIES ...	72	9	*	*	*	*	520	+ 93	373	−148	63	+ 1	9·45	+1·65	3·1	0·0	28	0
5. ENGLAND, S.E.	70	13	*	*	*	*	557	+108	218	−160	63	+ 3	9·43	+1·47	3·6	+0·1	33	+ 1
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	397	+ 60	328	− 88	76	+ 1	15·19	−0·07	3·0	−0·1	28	− 1
7. ENGLAND, N.W.	70	7	*	*	*	*	456	+101	298	− 84	68	− 1	10·54	+0·26	3·3	+0·2	30	+ 2
8. ENGLAND, S.W.	71	9	*	*	*	*	555	+ 87	189	−109	78	+ 9	14·26	+2·11	3·3	−0·2	30	− 3
9. IRELAND, NORTH ...	69	15	*	*	*	*	492	+ 90	236	−105	71	− 9	11·98	+0·20	2·9	−0·2	27	− 1
10. IRELAND, SOUTH ...	70	13	*	*	*	*	617	+ 92	167	− 90	86	+13	14·39	+1·10	3·4	−0·1	31	− 1
11. ENGLISH CHANNEL ...	71	27	*	*	*	*	797	+204	44	− 65	75	0	12·09	+1·91	3·9	−0·4	36	− 3

NOTES ON TABLE IV.

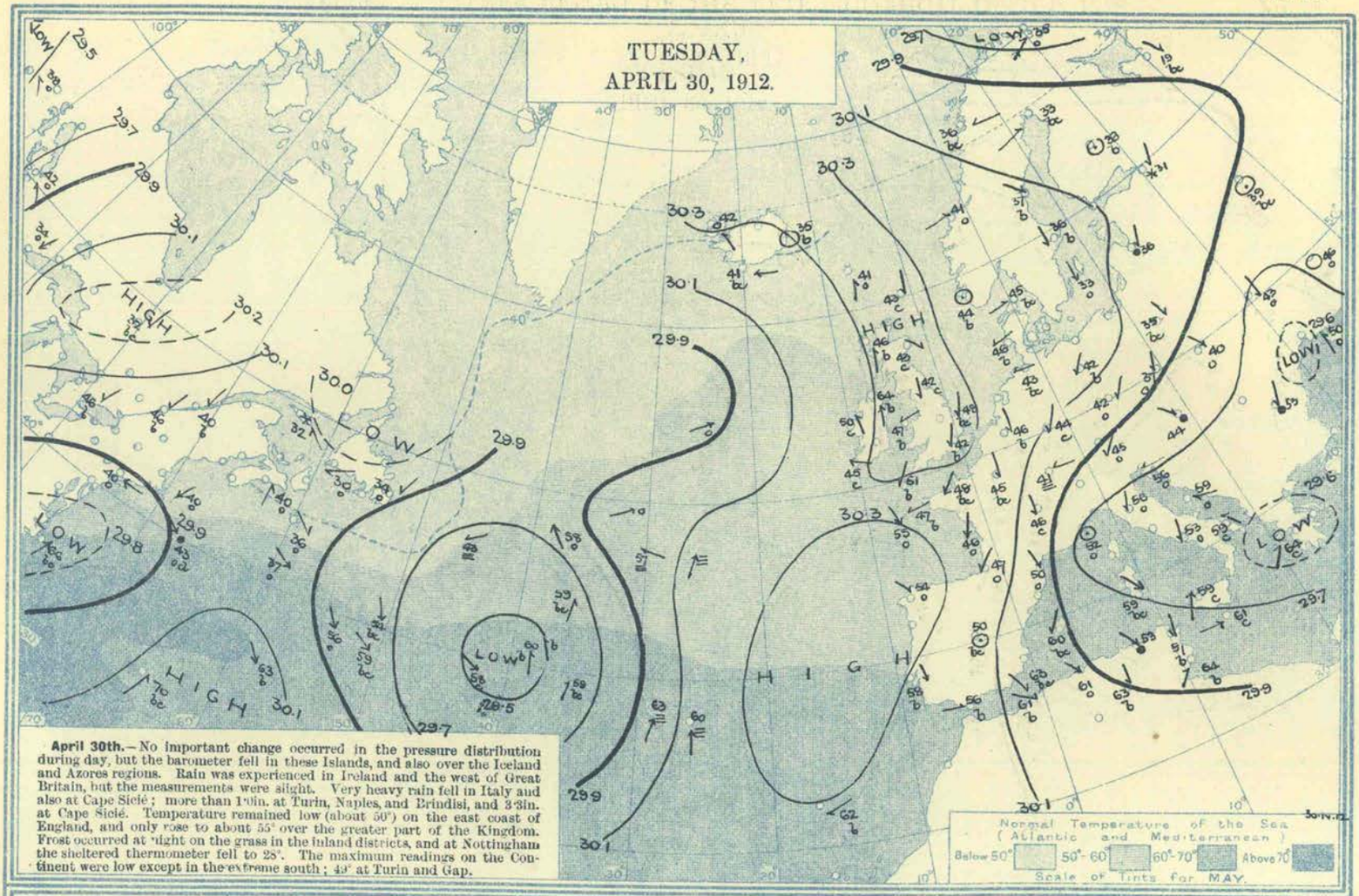
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



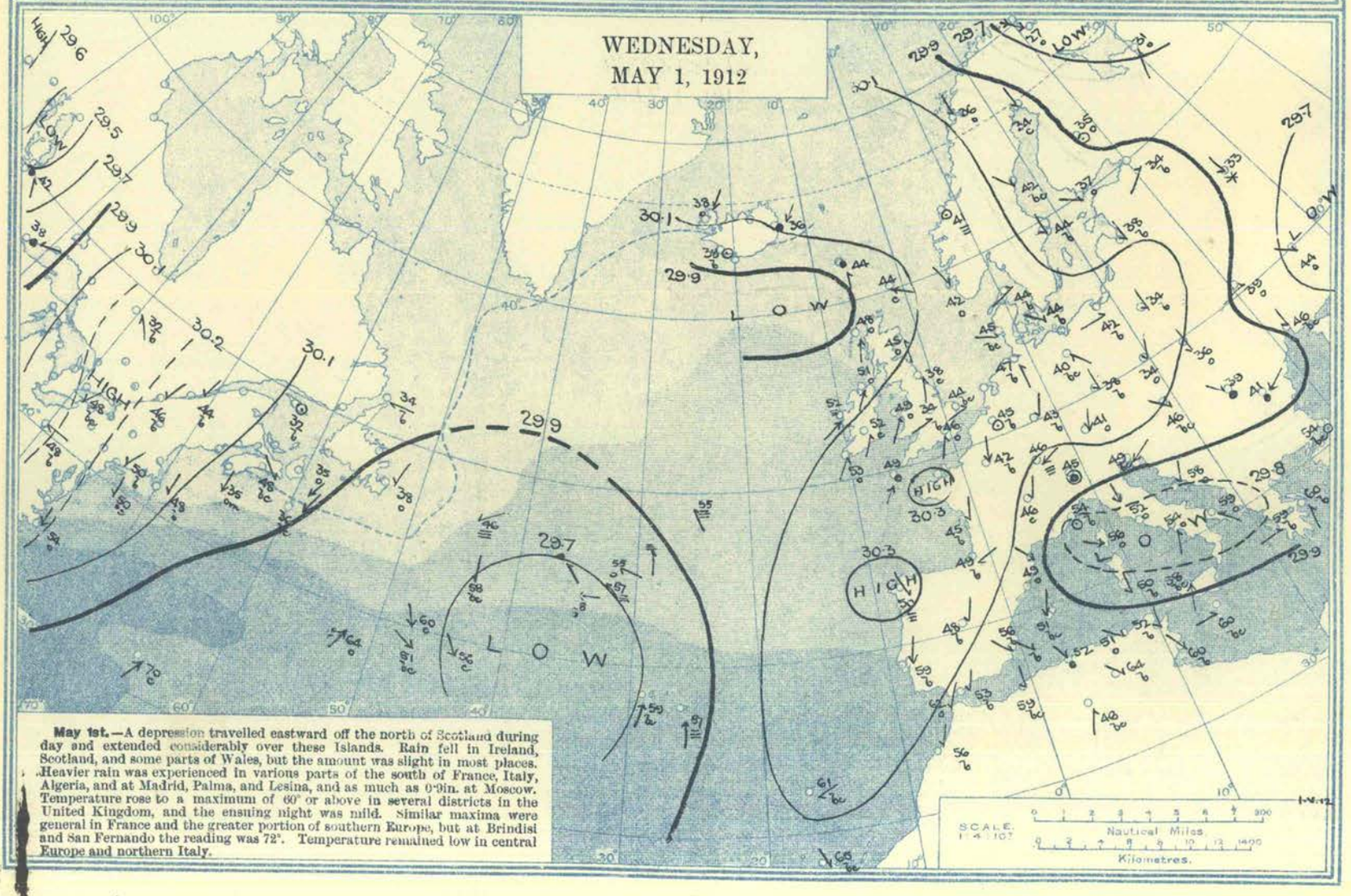
April 28th.—Pressure increased during day in the western and south-western portion of our area. A little rain occurred in the north and east of Great Britain, and much larger quantities in the South of France, Spain, Italy, and Algeria and Tunis; 0·8in. at Perpignan, Brindisi, and Tunis, and 1·3in. at Bilbao. Temperature rose to 60° or a few degrees higher in the south and south-west of England, but only to about 50° in the north and east. Frost was experienced at night on the grass in many parts of these Islands. At Tunis the maximum was as high as 77°; at Buda-Pesth, Malta, and a few French stations 70°, but generally the readings were rather low for the time of year; 50° at Turin, 55° at Cette, and 57° at Cape Sicié.



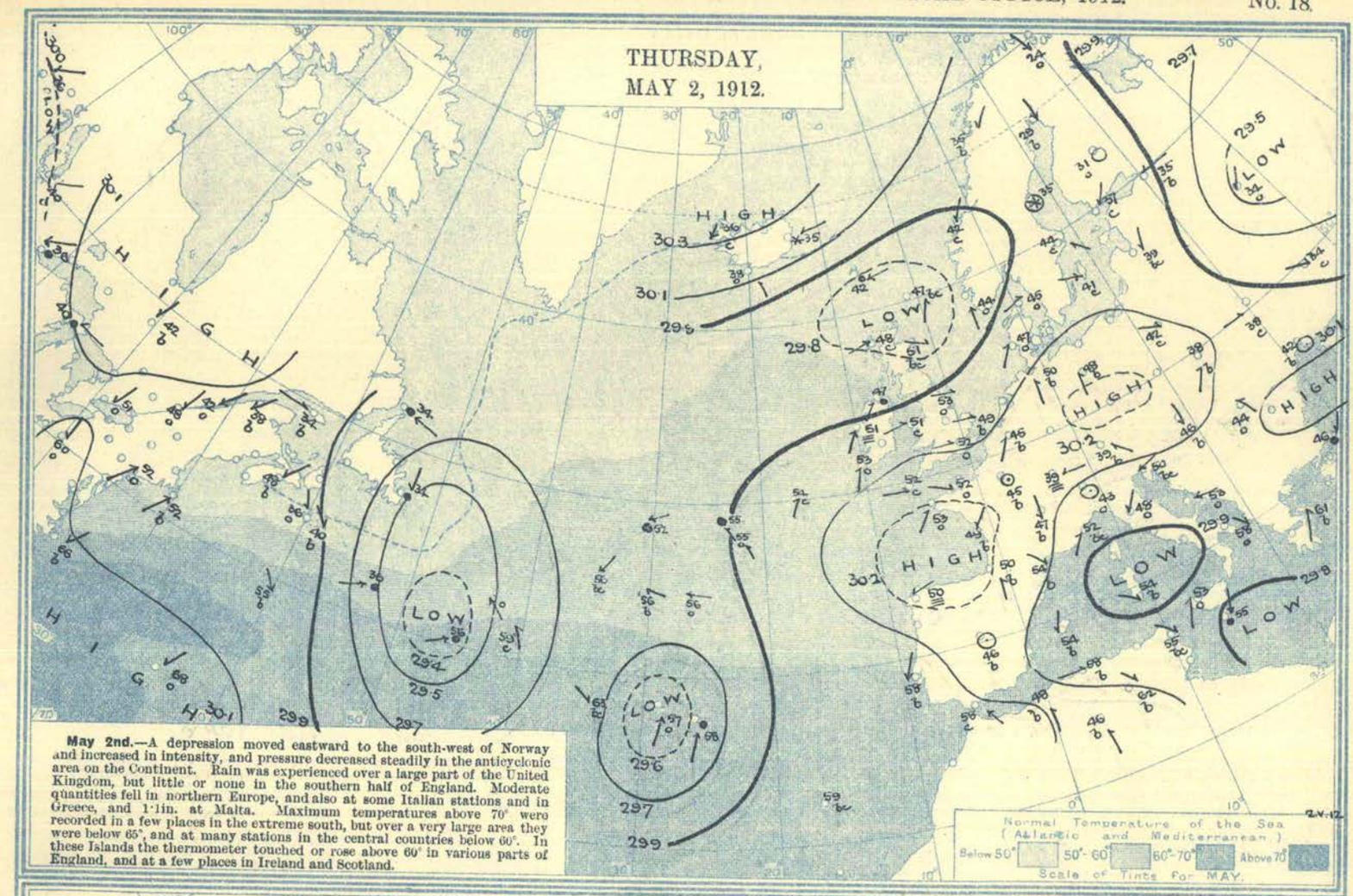
April 29th.—Icelandic anticyclone extended south-eastward to Scotland during day, and that in the Madeira region expanded north-eastward. The weather remained dry in nearly all parts of the United Kingdom and in most Continental regions except Austria-Hungary, Italy, and Greece; 0·6in. of rain at Buda-Pesth, and 0·8in. at Naples. Temperature rose to above 70° in the Spanish Peninsula, and to above 61° in Italy and most parts of France, but remained below it in central Europe and these Islands; below 55° over the major portion of England and Scotland. Frost occurred at night in Scotland and central England; minimum readings 27° at Nairn, 30° at Bath, and 32° at Oxford. At Kew the grass thermometer fell to 23°.



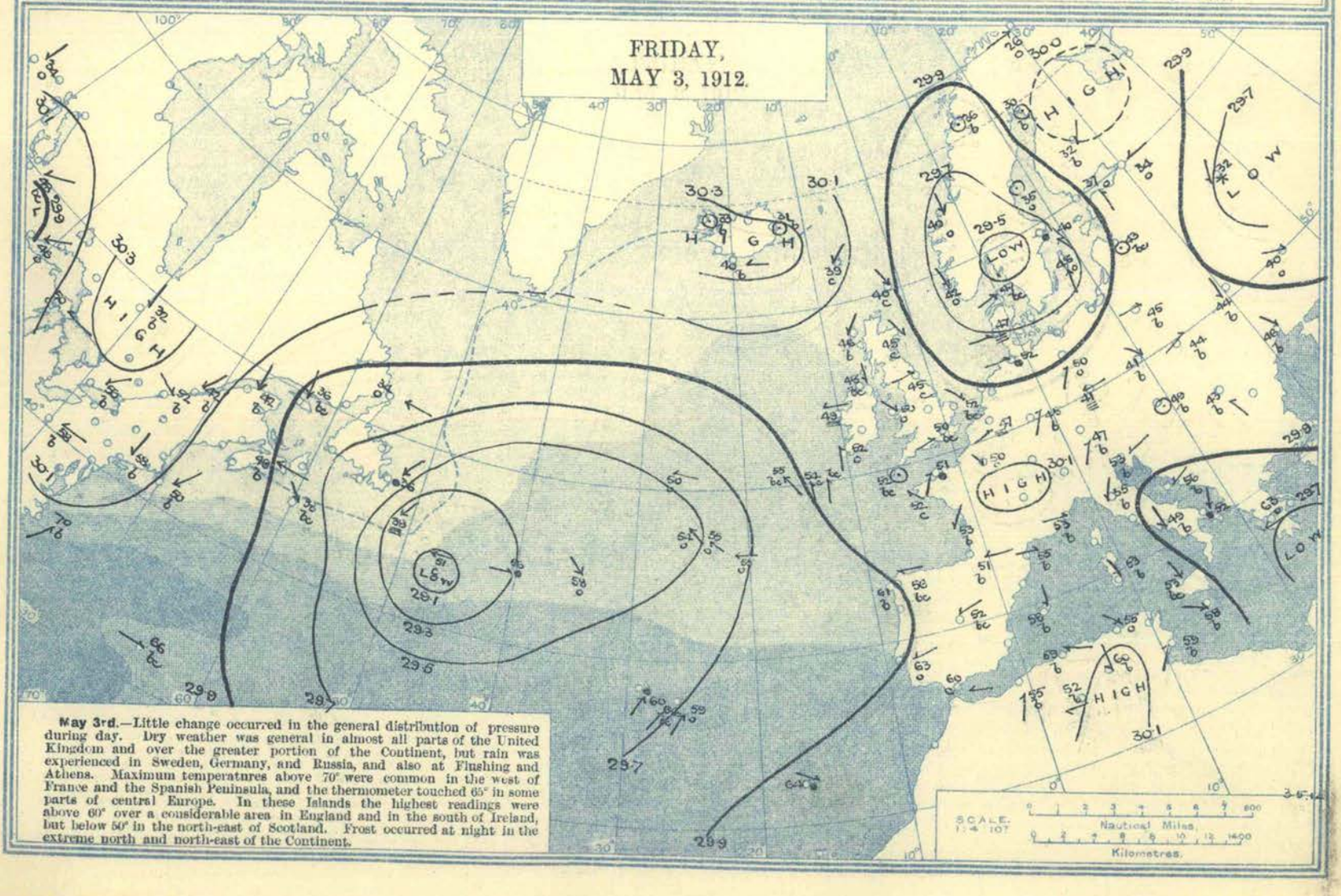
April 30th.—No important change occurred in the pressure distribution during day, but the barometer fell in these Islands, and also over the Iceland and Azores regions. Rain was experienced in Ireland and the west of Great Britain, but the measurements were slight. Very heavy rain fell in Italy and also at Cape Sicié; more than 1·0in. at Turin, Naples, and Brindisi, and 3·3in. at Cape Sicié. Temperature remained low (about 50°) on the east coast of England, and only rose to about 55° over the greater part of the Kingdom. Frost occurred at night on the grass in the inland districts, and at Nottingham the sheltered thermometer fell to 28°. The maximum readings on the Continent were low except in the extreme south; 49° at Turin and Gap.



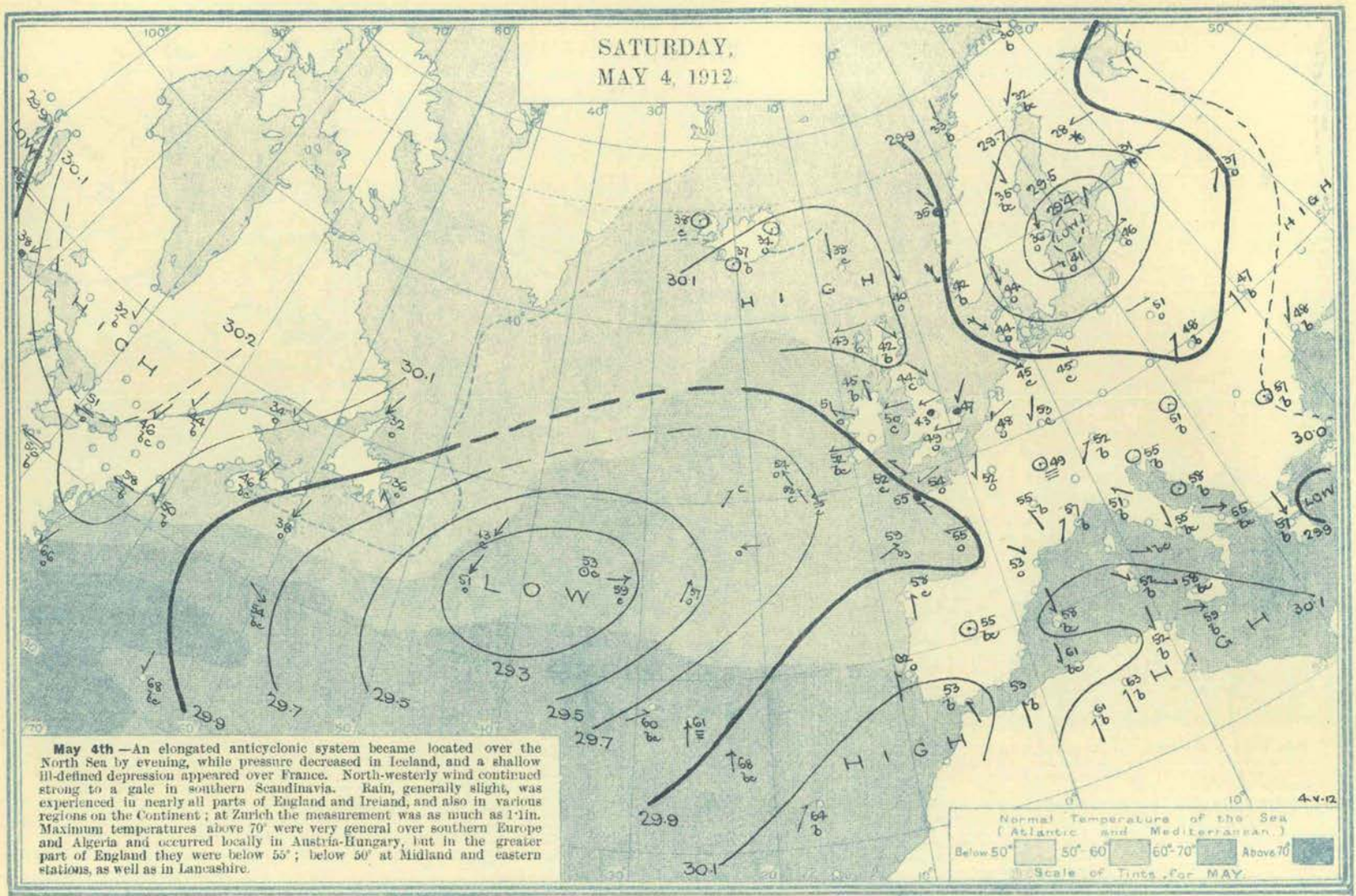
May 1st.—A depression travelled eastward off the north of Scotland during day and extended considerably over these Islands. Rain fell in Ireland, Scotland, and some parts of Wales, but the amount was slight in most places. Heavier rain was experienced in various parts of the south of France, Italy, Algeria, and at Madrid, Palma, and Lesina, and as much as 0·9in. at Moscow. Temperature rose to a maximum of 60° or above in several districts in the United Kingdom, and the ensuing night was mild. Similar maxima were general in France and the greater portion of southern Europe, but at Brindisi and San Fernando the reading was 72°. Temperature remained low in central Europe and northern Italy.



May 2nd.—A depression moved eastward to the south-west of Norway and increased in intensity, and pressure decreased steadily in the anticyclonic area on the Continent. Rain was experienced over a large part of the United Kingdom, but little or none in the southern half of England. Moderate quantities fell in northern Europe, and also at some Italian stations and in Greece, and 1·1in. at Malta. Maximum temperatures above 70° were recorded in a few places in the extreme south, but over a very large area they were below 65°, and at many stations in the central countries below 60°. In these Islands the thermometer touched or rose above 60° in various parts of England, and at a few places in Ireland and Scotland.

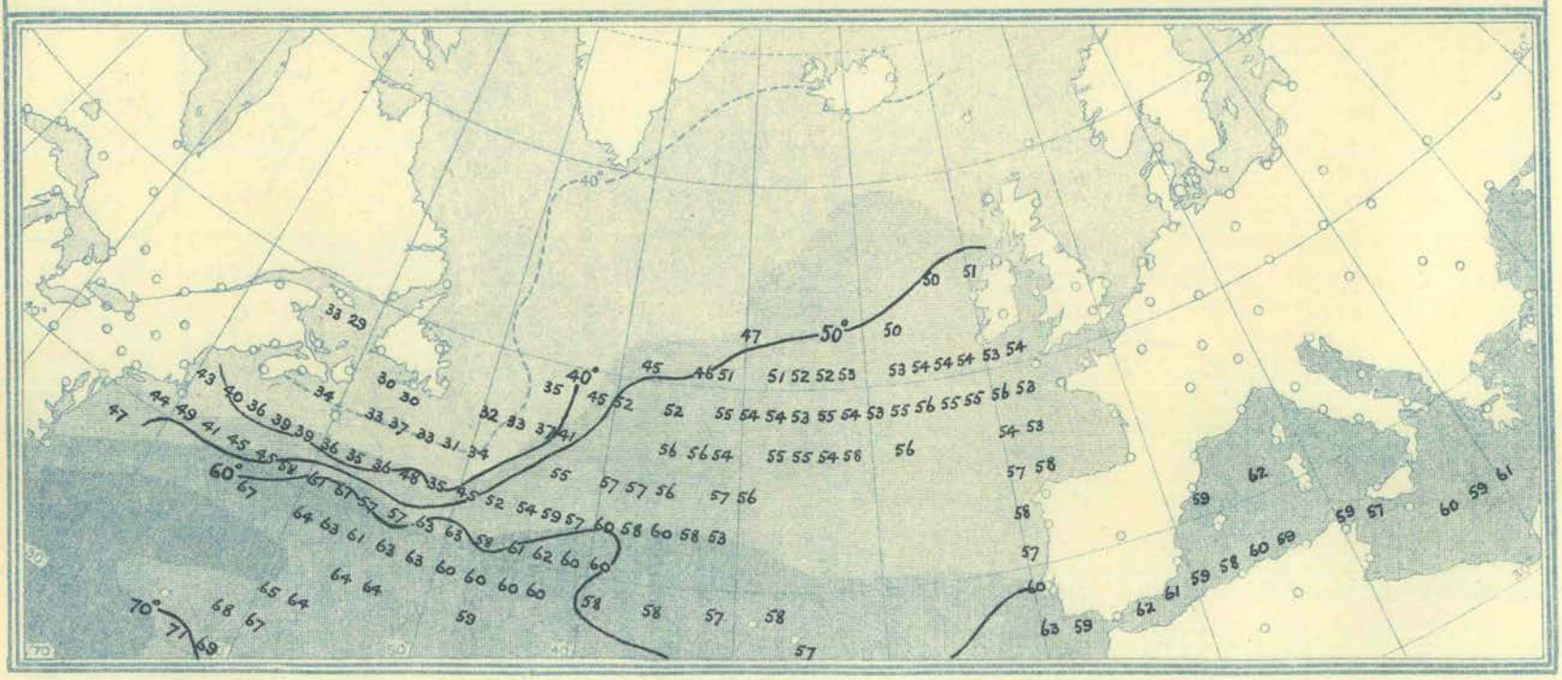


May 3rd.—Little change occurred in the general distribution of pressure during day. Dry weather was general in almost all parts of the United Kingdom and over the greater portion of the Continent, but rain was experienced in Sweden, Germany, and Russia, and also at Flushing and Athens. Maximum temperatures above 70° were common in the west of France and the Spanish Peninsula, and the thermometer touched 65° in some parts of central Europe. In these Islands the highest readings were above 60° over a considerable area in England and in the south of Ireland, but below 50° in the north-east of Scotland. Frost occurred at night in the extreme north and north-east of the Continent.



May 4th—An elongated anticyclonic system became located over the North Sea by evening, while pressure decreased in Iceland, and a shallow ill-defined depression appeared over France. North-westerly wind continued strong to a gale in southern Scandinavia. Rain, generally slight, was experienced in nearly all parts of England and Ireland, and also in various regions on the Continent; at Zurich the measurement was as much as 1·1in. Maximum temperatures above 70° were very general over southern Europe and Algeria and occurred locally in Austria-Hungary, but in the greater part of England they were below 55°; below 50° at Midland and eastern stations, as well as in Lancashire.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 4TH. MAY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ↯ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) | No. 19. NINETEENTH WEEK, SUNDAY, MAY 5TH, TO SATURDAY, MAY 11TH, 1912. Price 6d. Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather although generally fair and dry over the south-eastern quarter of England was less settled than for a considerable time past. Occasional rain was experienced in all districts, thunderstorms or thunder only occurred in various parts of Scotland on the 7th and 8th, at Clacton-on-Sea on the 9th, at Hastings on the 10th, and at Guernsey on the 11th. Much fog prevailed throughout the week round our west and south coasts. During the disturbed weather of Saturday a remarkable increase of temperature, amounting to 20°, was observed during a kite ascent which was made at midday from Brighton. At the surface of the ground the thermometer registered 55° F. while at a height of 3,000 feet it rose to 75° F. Violent barometric oscillations occurred on the same day over the South of England, and peculiar tidal effects were observed at Watchet (Somerset).

Temperature was considerably above the average, the excess amounting to about 8° in England North-East and the Midland Counties, and to 9° in England East. At many of the northern stations the highest readings occurred on Tuesday or Wednesday, but over the country generally they were observed on Friday or Saturday, when the thermometer exceeded 75° in many English districts, and reached 81° in the Midland Counties, and 82° in England East, as well as at Greenwich. In Scotland, England North-West and Ireland North the thermometer did not touch 70°. The lowest readings were observed generally on Sunday or Monday, but in Ireland and some neighbouring parts of Great Britain they occurred on Friday, the values ranging from 31° in Scotland North to 45° in England South-East and South-West and Ireland South and to 47° in the English Channel. The lowest readings on the surface of the grass were 25° at Crathes, 27° at Birmingham and 30° at Buxton. At a depth of 1 foot and 4 feet the temperature of the soil remained above the normal.

Mean Temperature of the Sea was above the average and on all but our extreme north and north-west coasts it was higher than in the corresponding week of last year. The actual values ranged from between 53° and 55° on the Channel and South-East coasts to 46° at Lerwick, and 45° at Burnmouth.

Rainfall was considerably in excess of the normal in Scotland North, and slightly in excess in Scotland East and West and England South-West. In all other districts it was again deficient; at many places in the east of England the total quantity amounted to less than 0·05 in.

Bright Sunshine was much less than the average, especially in the western districts, where the mean daily duration amounted in many places to less than 2 hours. The percentage of the possible duration ranged from 32 in Scotland East and 31 in England East to only 10 in Ireland North and 8 in England South-West.

Barometer and Wind. Early in the week a large depression of moderate intensity moved northward along our extreme western coasts and occasioned moderate to fresh Southerly winds over the country generally. As the depression passed away an anticyclone extended over the United Kingdom from the southward, the wind for a time being light in force and mainly West. By Friday a new disturbance advanced from the Atlantic, and on Saturday, when its centre moved north-eastward across Scotland, strong Westerly to North-Westerly winds were experienced on our extreme northern coasts and a strong gale from the North-Eastward in Shetland.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 75.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Very heavy	Heavy	Light	Light	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty

THE SEASON.

*In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 10 weeks from March 3rd, 1912.	Warmth ...	6 * 1	7 * 0	7 * 0	7 * 0	7 * 0	6 * 0	6 * 1	7 * 0	6 * 0	7 * 0	7 * 0	7 * 0
	Rainfall ...	4 * 3	3 * 3	3 * 7	2 * 5	3 * 7	2 * 5	2 * 3	3 * 3	3 * 4	2 * 2	2 * 3	3 * 4
	Sunshine ...	3 * 2	3 * 2	2 * 5	3 * 3	3 * 4	6 * 3	2 * 2	4 * 3	2 * 4	2 * 6	2 * 4	2 * 4

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(24363—24.) Wt. 173—814. 450 5/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	*57*	*8th*	*34*	*5th*	*49·7*	*41·6*	*45·4*	—	*25*	*1*	•	•	*46·1*	•	•	•	*6*	*1·55*	—	*3·5*	—	*21*	—	*Baltasound.*
a Islands .. *a Lerwick*	55	8th	34	5th	49·7	42·0	45·6	+ 1·5	25	0	•	•	•	•	•	•	6	2·56	—	4·5	- 1·1	28	- 7	Deerness.
a Stornoway	59	7th	42	5th	54·3	45·9	49·9	+ 4·0	55	0	•	•	•	•	•	•	7	1·61	+ 1·03	3·3	- 2·6	21	-16	Stornoway.
a Castlebay, Barra Isd.	*53*	*7, 8, 9, 10*	*45*	*5th*	*52·0*	*47·3*	*49·5*	*+ 0·3*	*53*	*0*	•	•	•	•	•	•	*6*	*1·40*	—	*3·4*	—	*22*	—	*Castlebay.*
a Wick	60	9th	36	5th	54·3	44·1	48·9	+ 2·9	48	0	•	•	•	•	•	•	7	0·67	+ 0·22	•	•	•	•	•
b, Main- *p* Strathpeffer ..	67	8th	31	5th	60·4	45·6	52·6	+ 5·8	74	0	•	•	•	•	•	•	6	0·66	+ 0·22	2·9	- 2·5	18	-16	Strathpeffer.
land. *p* Glencarron ..	62	8th	39	5th	56·1	45·5	50·5	+ 4·8	80	0	•	•	•	•	•	•	7	3·19	+ 1·11	•	•	•	•	•
p Fort Augustus..	65	8th	41	5th	59·6	47·4	53·1	+ 6·4	78	0	•	•	•	•	•	•	7	1·04	+ 0·51	3·5	- 0·7	22	- 5	Fort Augustus.
p Fort William ..	63	10th	44	5, 11	58·4	47·4	52·6	+ 4·4	74	0	•	•	•	•	•	•	5	1·66	+ 0·81	•	•	•	•	•
1. SCOTLAND, E.																							
p Gordon Castle.. S	69	8th	37	5th	62·7	46·0	53·9	+ 6·6	83	0	1	25	50·3	+2·9	46·8	+2·2	—	—	—	5·2	—	33	—	Crathes S.
a Nairn	67	7th	34	5th	61·7	44·7	52·7	+ 5·4	75	0	•	•	•	•	•	•	7	0·62	+ 0·25	4·6	—	29	—	Nairn.
a Aberdeen ..	67	7th	41	5th	61·7	46·6	53·7	+ 7·2	82	0	•	•	•	•	46·7	+2·6	5	0·46	- 0·03	6·1	+ 0·2	38	+ 1	Aberdeen.
a Balmoral ..	63	7, 9, 10	37	5th	60·4	42·6	51·0	+ 6·7	63	0	0	35	•	•	•	•	4	0·22	- 0·30	•	•	•	•	Balmoral.
p Crieff	66	7th	39	5th	60·7	45·6	52·7	+ 4·4	75	0	•	•	•	•	•	•	5	0·86	+ 0·33	3·9	—	25	—	Balruddery.
a Leith	66	8th	41	5th	61·4	48·1	54·4	+ 6·2	87	0	•	•	•	•	•	•	5	0·84	+ 0·49	•	•	•	•	•
p West Linton ..	63	10th	36	5, 10	58·1	42·6	49·9	+ 4·7	55	0	•	•	•	•	•	•	5	0·72	—	*3·1*	—	*20*	—	*West Linton.*
p Marchmont ..	66	8th	38	5th	60·3	45·4	52·4	+ 6·2	73	0	0	34	50·4	+5·4	•	•	4	0·32	- 0·22	5·2	- 0·3	31	- 2	Marchmont.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	72	8th	42	5th	64·6	46·6	55·1	+ 8·2	92	0	0	31	52·4	+4·9	47·8	+2·6	5	0·17	- 0·31	5·8	—	37	—	Cockle Park.
a Shields	67	9, 11	41	5th	62·3	46·4	53·9	+ 6·7	83	0	•	•	•	•	•	•	6	0·46	+ 0·09	•	•	•	•	*Newcastle.*
p Durham	67	8th	41	5, 10	62·0	46·7	53·9	+ 6·7	83	0	0	37	•	•	•	•	4	0·33	- 0·07	4·4	- 0·9	29	- 5	Durham.
a, North .. *p* Rounton	70	11th	42	5, 10	64·1	47·0	55·0	+ 8·2	91	0	0	35	51·3	•	•	•	3	0·33	- 0·04	•	•	•	•	Rounton.
a West Witton	*66*	*8, 9, 11*	*40*	*5th*	*62·0*	*46·6*	*53·8*	—	*83*	*0*	0	38	51·0	•	45·3	•	*3*	*0·32*	—	•	•	•	•	*West Witton.*
p Scarborough	74	11th	44	5th	64·1	49·6	56·4	+ 8·6	101	0	•	•	•	•	•	•	2	0·20	- 0·20	4·9	—	32	—	Scarborough.
p York	74	11th	43	5th	65·6	48·6	56·6	+ 7·0	102	0	•	•	51·6	+2·6	48·2	+1·9	1	0·18	- 0·25	4·4	- 1·0	29	- 7	York.
p Spurn Head ..	72	11th	44	5, 6	62·1	47·9	54·6	+ 6·1	88	0	0	37	52·7	+3·5	47·3	+1·5	3	0·11	- 0·21	*3·1*	—	*20*	—	*Hull.*
b, South .. *a* Lincoln	77	11th	43	5th	67·6	49·1	57·8	+ 7·8	111	0	•	•	53·1	+3·6	48·9	+2·4	4	0·08	- 0 32	•	•	•	•	Lincoln.
a Fulbeck	78	11th	40	10th	67·6	46·7	56·5	+ 7·0	102	0	0	36	55·4	+3·3	49·9	+2·2	2	0·03	- 0·38	3·9	—	26	—	Rauceby.
											•	•	•	•	•	•	—	—	—	3·8	—	25	—	Skegness.
3. ENGLAND, E.											0	43	54·8	+2·9	50·5	+2·1	—	—	—	*4·9*	—	*33*	—	*Lowestoft.*
p Cromer	82	11th	42	5th	66·0	48·9	56·9	+ 8·7	104	0	•	•	•	•	•	•	2	0·06	—	3·8	—	25	—	Cromer.
p Hillington							—	—	—	—	•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	81	11th	45	5th	66·0	50·4	57·7	+ 9·3	110	0	•	•	56·9	+3·8	52·7	+2·4	2	0·05	- 0·33	5·1	—	34	—	Yarmouth.
a Norwich	82	11th	44	5th	69·3	49·4	58·8	+ 9·8	118	0	0	41	54·9	•	•	•	3	0·07	—	*4·7*	—	*31*	—	*Norwich.*
p Geldeston	82	11th	43	11th	68·6	49·3	58·4	+ 9·0	115	0	•	•	•	•	•	•	3	0·06	- 0·33	5·0	- 1·5	33	-11	Geldeston.
p Cambridge	82	11th	44	5, 6	69·3	50·0	59·1	+ 8·6	120	0	0	37	54·1	+2·1	51·4	+2·3	2	0·03	- 0·36	4·2	- 2·1	28	-14	Cambridge.
a Felixstowe	*74*	*11th*	*46*	*5th*	*66·3*	*51·6*	*58·5*	*+ 9·0*	*116*	*0*	•	•	•	•	•	•	*3*	*0·19*	—	*6·6*	—	*44*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	74	8th	46	6th	64·4	51·4	57·5	+ 8·4	109	0	0	40	53·8	+2·7	51·3	+1·7	2	0·37	—	5·0	—	33	—	Clacton.
a Rothamsted	79	11th	44	5th	68·1	50·7	58·9	+ 9·4	118	0	•	•	•	•	•	•	3	0·03	- 0·39	4·3	- 1·7	29	-11	Rothamsted.
a Shoeburyness	*78*	*11th*	*45*	*6th*	*67·9*	*51·3*	*59·1*	*+ 8·0*	*120*	*0*	0	39	57·0	+4·5	•	•	*2*	*0·03*	- *0·23*	*5·0*	—	*33*	—	*Southend.*
p Tottenham	80	11th	46	5th	68·9	52·9	60·4	+ 9·7	129	0	0	42	•	•	53·1	+4·2	1	0·02	—	4·8	—	32	—	Tottenham.
4. MIDLAND COUNTIES.											0	37	51·1	+2·2	46·4	+2·0	—	—	—	*2·1*	—	*14*	—	*Huddersfield.*
a Harrogate	71	11th	40	5th	63·1	46·9	54·5	+ 7·0	88	0	0	37	50·1	+3·3	47·5	+1·9	3	0·35	- 0·13	3·9	—	25	—	Harrogate.
a Bawtry	75	11th	42	10th	66·1	49·0	57·0	+ 7·5	105	0	0	33	52·2	•	49·2	•	3	0·14	- 0·25	2·7	- 2·5	18	-17	Worksop.
p Buxton	*68*	*11th*	*36*	*10th*	*61·3*	*47·9*	*54·2*	*+ 8·2*	*85*	*0*	1	30	50·4	+1·7	46·5	+1·7	*3*	*0·31*	- *0·37*	*2·1*	—	*14*	—	*Buxton.*
a East .. *a* Nottingham	77	11th	39	10th	67·0	47·3	56·6	+ 7·1	102	0	0	34	54·0	+3·8	48·3	+1·9	2	0·04	- 0·35	2·5	—	16	—	Nottingham.
p Birmingham, Edgbsn.	74	11th	42	5th	64·1	49·9	56·6	+ 7·2	102	0	1	27	50·5	+3·2	47·6	+1·8	2	0·09	- 0·36	2·3	—	15	—	Birmingham.
a Raunds	81	11th	43	5th	68·6	49·6	58·5	+ 8·8	116	0	0	42	52·3	—	48·8	—	1	0·01	—	•	•	•	•	Raunds.
a Oxford	77	11th	46	5th	67·0	52·3	59·2	+ 8·7	120	0	0	•	•	•	•	•	3	0·06	- 0·32	3·8	- 2·2	25	-14	Oxford.
											0	37	51·1	+2·8	46·6	+1·7	—	—	—	3·7	—	24	—	Sheffield.
a Cheadle	67	9th	44	5th	64·3	51·0	57·3	+ 9·1	107	0	0	36	•	•	•	•	3	0·14	—	•	•	•	•	Cheadle.
p Shrewsbury	72	11th	44	5th	64·4	51·6	57·6	+ 7·4	109	0	0	44	•	•	•	•	5	0·20	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	72	10th	46	5th	65·6	52·0	58·4	+ 7·9	115	0	0	44	•	•	•	•	3	0·26	- 0·19	•	•	•	•	Hereford.
a Cirencester	74	11th	45	5th	65·7	50·1	57·4	+ 8·3	108	0	0	46	52·8	•	49·5	•	3	0·32	- 0·13	3·6	- 2·7	24	-18	Cirencester.
a Bath	75	10th	49	5, 6	66·3	52·9	59·2	+ 8·4	120	0	•	•	55·7	+3·3	51·9	+2·2	3	0·14	- 0·30	3·3	—	22	—	Bath.
5. ENGLAND, S.E.											0	41	57·2	+6·0	52·3	+3·1	—	—	—	•	•	•	•	Canterbury.
p Kew	75	11th	48	5, 6	67·3	53·4	59·9	+ 9·0	125	0	0	37	55·1	+3·6	50·4	+2·0	2	0·07	- 0·29	3·7	- 2·4	25	-16	Kew.
a Marlborough	72	10, 11	46	5th	65·6	50·6	57·7	+ 8·8	110	0	0	44	•	•	•	•	3	0·15	- 0·28	1·9	- 3·8	13	-15	Marlborough.
a Margate	77	11th	46	5th	67·6	51·0	58·8	+ 8·7	118	0	—	—	54·1	+3·6	49·7	+1·7	1	0·06	- 0·27	4·4	- 1·7	29	-11	Margate.
a Wisley, Surrey ..	77	11th	47	5, 6	68·0	51·0	59·0	+ 7·9	119	0	0	38	55·6	+4·1	51·2	+2·4	2	0·10	—	3·5	—	23	—	Wisley
a Swarraton	73	11th	48	5th	66·3	51·4	58·4	+ 9·2	115	0	0	42	56·5	+3·6	51·7	+2·2	3	0·21	- 0·24	4·1	—	27	—	Worthing.
a Tunbridge Wells ..	71	11th	45	6th	67·1	49·9	58·0	+ 8·1	112	0	0	40	55·6	+3·4	•	•	2	0·20	- 0·20	5·2	- 1·2	35	- 8	Tunbridge Wells.
a Dungeness	61	10, 11	45	6th	58·3	49·7	53·7	+ 3·8	82	0	0	•	•	•	•	•	1	0·23	- 0·05	4·7	—	31	—	Littlestone.
p Hastings..	65	10, 11	48	5th	61·1	50·7	55·6	+ 5·1	95	0	0	42	56·2	•	51·6	•	4	0·30	- 0·06	*4·4*	- *2·7*	*29*	- *18*	*Hastings.*
p Southampton	70	9th	49	5th	64·1	52·6	58·0	+ 5·7	112	0	0	47	•	•	•	•	2	0·31	- 0·13	3·4	- 3·3	23	-22	Southampton.
a Ventnor	65	9th	50	5, 9	60·6	51·1	55·6	+ 4·1	95	0	•	•	•	•	•	•	3	0·60	+ 0·23	3·4	- 3·7	23	-25	Ventnor.
											0	43	57·8	+4·2	53·2	+2·4	—	—	—	*3·9*	—	*28*	—	*Portsmouth.*
											•	•	55·2	•	51·8	•	—	—	—	4·6	- 2·5	31	-16	Eastbourne.
											•	•	54·6	•	52·1	•	—	—	—	*3·8*	—	*25*	—	*Bournemouth.*
LONDON.											0	40	•	•	52·5	•	—	—	—	*3·2*	- *3·6*	*21*	- *24*	*Brighton.*
a Westminster	*78*	*11th*	*48*	*5, 6*	*67·9*	*53·6*	*60·3*	*+ 8·9*	*128*	*0*	0	43	•	•	•	•	*1*	*0·05*	- *0·31*	*3·8*	- *1·3*	*25*	- *8*	*Westminster.*
a Greenwich	*83*	*11th*	*46*	*5, 6*	*71·1*	*51·6*	*60·8*	*+ 9·4*	*132*	*0*	0	36	•	•	•	•	*2*	*0·07*	- *0·28*	*4·2*	- *1·3*	*29*	- *8*	*Greenwich.*
a Hampstead	*77*	*11th*	*44*	*5th*	*66·6*	*50·1*	*57·9*	—	*111*	*0*	0	36	•	•	•	•	*1*	*0·06*	—	*4·6*	—	*31*	—	*Hampstead.*
a Camden Square ..	*81*	*11th*	*46*	*6th*	*71·0*	*52·4*	*61·1*	—	*134*	*0*	0	40	•	•	•	•	*1*	*0·06*	—	*4·5*	—	*30*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																							
a Poltalloch .. S	60	10th	44	5th	56·9	48·7	52·6	+ 3·9	74	0	•	•	•	•	•	•	6	1·17	+ 0·57	•	•	•	•	•
p Glasgow	63	10th	41	5th	58·4	48·1	52·9	+ 4·3	76	0	0	35	•	•	•	•	4	0·82	+ 0·28	2·6	- 2·4	17	-16	Glasgow.
p Rothesay .. S.	64	8th	43	5th	59·4	47·0	52·8	+ 4·1	76	0	•	•	•	•	48·1	+2·0	6	1·42	+ 0·77	•	•	•	•	•
a Kilmarnock ..	64	8th	38	10th	59·7	46·7	52·8	+ 4·3	76	0	•	•	•	•	•	•	5	0·80	—	*2·6*	—	*17*	—	*Kilmarnock.*
a Colmonell ..	64	8th	41	10th	60·3	47·4	53·5	+ 4·8	81	0	0	36	•	•	•	•	4	0·31	- 0·26	•	•	•	•	•
p Dumfries ..	62	9th	42	10th	57·7	47·3	52·2	+ 3·0	71	0	0	33	52·0	•	49·3	•	6	0·71	+ 0·16	*1·7*	—	*11*	—	*Dumfries.*
p Cally, Gatehouse	64	9th	37	10th	58·7	44·7	51·3	+ 2·7	65	0	•	•	•	•	•	•	5	0·52	- 0·18	•	•	•	•	•
b I. OF MAN.																							
p Douglas	62	9th	44	5th	56·0	47·6	51·6	+ 3·2	67	0	0	40	•	•	•	•	6	0·45	- 0·13	2·4	- 4·6	16	-30	Douglas.
											0	34	50·7	+1·5	46·6	+0·8	—	—	—	*1·2*	—	*8*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											0	34	•	•	•	•	—	—	—	2·1	—	14	—	Hoylake.
p Aspatria	62	8, 9, 10	44	5th	59·1	48·3	53·4	+ 5·6	80	0	0	42	52·0	•	47·7	•	6	0·82	+ 0·27	2·0	—	13	—	Aspatria.
p Newton Rigg	63	8, 9, 10	40	5th	58·3	47·0	52·3	+ 5·1	72	0	0	32	51·3	+2·7	47·2	+1·9	6	0·32	- 0·21	2·7	- 3·3	18	-22	Newton Rigg.
p Stonyhurst	66	11th	42	10th	60·6	48·7	54·3	+ 5·9	86	0	0	37	•	•	•	•	6	0·84	+ 0·21	1·3	- 4·7	8	-30	Stonyhurst.
p Blackpool	64	11th	40	10th	60·6	48·1	54·0	+ 4·9	84	0	•	•	•	•	•	•	4	0·50	+ 0·03	2·1	- 4·1	14	-26	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	66	10, 11	42	6th	62·0	48·9	55·1	+ 5·6	92	0	•	•	•	•	•	•	4	0·38	- 0·03	*1·8*	—	*12*	—	*Liverpool.*
a Hawarden Bridge ..	68	11th	43	10th	63·6	50·1	56·5	+ 5·9	102	0	0	35	54·6	+2·1	50·3	+0·8	4	0·15	- 0·22	*2·2*	- *4·3*	*14*	- *28*	*Southport.*
											0	43	52·5	+3·7	49·3	+2·8	—	—	—	*1·2*	—	*8*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	68	11th	46	5th	63·1	51·1	56·7	+ 6·9	103	0	•	•	•	•	•	•	4	0·21	- 0·21	2·8	- 3·5	19	-23	Llandudno.
a Holyhead	61	10th	45	10th	57·3	48·4	52·6	+ 3·4	74	0	•	•	•	•	•	•	6	0·17	- 0·28	0·2	—	1	—	Aberdovey.
p Bettws-y-Coed ..	65	10th	46	5, 6	60·6	50·4	55·2	+ 5·6	92	0	0	43	52·7	+3·8	49·1	+2·5	2	0·24	—	1·3	—	9	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·4	—	3	—	
a Llangammarch Wells	69	10th	45	5th	60·1	49·4	54·4	+ 6·2	87	0	0	46	52·2	+2·6	47·7	+1·1	4	0·36	—	1·0	—	7	—	Llangammarch
a Pembroke	65	10th	49	5th	56·0	50·4	53·0	+ 3·7	77	0	*	*	*	*	*	*	3	0·20	- 0·24	0·3	- 6·8	2	-44	Pembroke.[Wells
p Cardiff	71	10th	47	5th	61·9	51·4	56·3	+ 5·1	100	0	0	45	55·5	+6·3	50·5	+2·5	3	0·45	- 0·10	*1·8*	—	*12*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	73	10th	49	5th	65·1	53·0	58·7	+ 7·5	117	0	0	48	*	*	*	*	3	0·29	- 0·21	*2·7*	—	*18*	—	*Clifton.*
a Shaftesbury	69	10th	46	5th	61·7	49·6	55·3	+ 6·1	93	0	*	*	55·1	*	*	*	2	0·50	+ 0·03	*	*	*	*	Shaftesbury.
a Arlington	69	10th	48	5th	61·0	50·1	55·2	+ 6·3	92	0	*	*	54·8	*	*	*	3	0·89	+ 0·25	1·5	- 5·0	10	-35	Newquay.
a Cullompton	72	10, 11	49	5, 6	67·4	51·1	58·8	+ 8·2	118	0	0	43	56·5	*	*	*	4	0·44	- 0·05	2·4	- 3·7	16	-25	Cullompton.
a Portland	60	9th	49	5, 9	56·3	50·0	53·0	+ 2·6	77	0	*	*	*	*	*	*	3	0·50	—	*2·4*	—	*16*	—	*Weymouth.*
p Plymouth	70	10th	50	9th	61·1	52·1	56·3	+ 4·8	100	0	0	45	57·9	+4·4	*	*	4	0·89	+ 0·42	2·2	- 4·6	15	-31	Plymouth.
p Falmouth	62	8th	51	5, 6	59·9	52·6	56·0	+ 5·3	98	0	*	*	*	*	*	*	5	0·73	+ 0·23	0·9	- 6·4	6	-43	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	61	7, 8	45	5, 10	56·6	47·9	52·0	+ 3·9	70	0	*	*	*	*	*	*	5	0·38	- 0·09	*	*	*	*	
a Blacksod Point ..	59	7, 10	44	10th	57·0	49·9	53·2	+ 3·6	78	0	*	*	*	*	*	*	4	0·36	- 0·27	*	*	*	*	
p Markree Castle ..	65	9th	39	10th	61·0	48·1	54·2	+ 5·7	85	0	0	25	54·7	*	49·6	*	3	0·56	- 0·04	1·7	- 4·1	11	-27	Markree Castle.
a Birr Castle	66	9, 11	45	10th	64·0	49·9	56·5	+ 7·1	102	0	*	*	*	*	*	*	4	0·56	+ 0·05	*2·4*	- *3·4*	*16*	- *23*	*Birr Castle.*
b, East .. *p* Armagh	66	9th	43	10th	61·3	49·3	54·9	+ 6·4	90	0	0	38	53·4	+2·2	49·5	+1·4	4	0·35	- 0·19	1·4	- 4·4	9	-28	Armagh.
a Donaghadee	64	11th	44	10th	59·4	47·7	53·2	+ 4·6	78	0	*	*	*	*	*	*	2	0·15	- 0·35	*	*	*	*	
											0	38	54·7	+3·7	50·8	+2·1	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	37	*	*	*	*	—	—	—	2·4	- 4·1	16	-27	Phœnix Park.
a, East .. *p* Dublin, City	69	11th	49	5, 10	62·9	52·6	57·4	+ 6·3	108	0	0	45	*	*	*	*	6	0·19	- 0·27	*	*	*	*	Dublin City.
a Kilkenny	67	9, 11	47	10th	63·3	51·9	57·3	+ 7·8	107	0	*	*	*	*	*	*	6	0·23	- 0·27	*	*	*	*	
a Waterford	66	10th	48	6, 10	60·6	51·1	55·6	+ 5·6	95	0	*	*	*	*	*	*	4	0·29	- 0·23	*	*	*	*	
a Birr Castle	66	9, 10	45	10th	64·0	49·9	56·5	+ 7·1	102	0	*	*	*	*	*	*	4	0·56	+ 0·05	2·4	- 3·4	16	-23	Birr Castle.
a Foynes	66	10th	48	10th	62·9	52·3	57·3	+ 6·8	107	0	*	*	*	*	*	*	5	0·59	+ 0·07	*	*	*	*	
a Cahir	67	9, 11	49	6th	63·9	52·0	57·6	+ 7·9	109	0	*	*	*	*	*	*	5	0·24	—	*	*	*	*	
b, West .. *a* Killarney	69	11th	51	10th	64·6	53·6	58·8	+ 8·9	118	0	*	*	*	*	*	*	4	0·20	- 0·50	*	*	*	*	
a Valencia	70	10th	49	10th	60·6	52·4	56·3	+ 5·6	100	0	*	*	*	*	*	*	6	0·37	- 0·38	1·9	- 4·7	13	-31	Valencia.
a Roche's Point	69	7, 10, 11	50	10th	58·1	52·1	54·9	+ 4·3	90	0	*	*	*	*	*	*	7	0·33	- 0·24	0·9	—	6	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	61	10th	50	10th	58·1	51·4	54·6	+ 3·4	88	0	*	*	*	*	*	*	5	0·30	- 0·09	1·6	- 5·6	11	-38	Scilly.
a Jersey, St. Aubins ..	76	10th	47	6th	66·7	53·0	59·4	+ 7·3	122	0	*	*	*	*	*	*	3	0·29	- 0·17	5·4	- 2·2	36	-15	St. Heliers.
a Guernsey (Villa Carey)	75	10th	51	5, 6	65·0	53·9	58·6	+ 7·0	116	0	0	43	58·0	+4·9	53·5	+3·1	3	0·47	+ 0·02	5·1	- 2·9	34	-20	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·6 hrs. 24 %; Newcastle (Pendower), hrs. %; Ramsgate, 5·7 hrs. 38 %; Rhyl, 2·2 hrs. 14 %; Salcombe, 1·8 hrs. 12 %; Tenby, 0·6 hrs. (- 6·3) 4 % (- 41 %); Torquay, 2·0 hrs. (- 5·0) 13 % (- 33 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, May 11th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	47	46	46·1	+0·9	SCOTLAND, W. ..	Lamlash	50	46	48·5	+2·6
	Kirkwall	50	49	49·4	+2·6		Ballantrae	54	48	51·0	+3·3
	Wick	47	47	47·0	+0·9	ENGLAND, N.W. ..	Port Erin	50	48	48·9	+1·2
SCOTLAND, E. ..	Cromarty	54	50	51·5	+5·6		Newquay	54	54	54·0	+2·7
	Pennan Bay	48	47	47·6	+1·3	ENGLAND, S.W. ..	Scilly	56	54	54·9	—
	Aberdeen, Cove Bay	47	46	46·7	+1·3		Plymouth‡	57	54	55·2	+4·9
ENGLAND, N.E. ..	Burnmouth, Berwick	46	44	45·2	+0·8		Salcombe	58	50	54·0	+4·0
	Scarborough	53	47	50·5	+4·6	IRELAND, N.W. ..	Sheephaven	50	50	50·0	+0·4
ENGLAND, E. ..	Shipwash Lightship	54	49	51·3	+3·2		Teelin	57	51	53·3	+1·3
	Margate‡	58	52	54·0	+3·1	IRELAND, S.W. ..	Cleggan	54	51	52·2	+2·1
ENGLAND, S.E. ..	Eastbourne‡	57	52	53·6	+2·9		Seafield	56	49	53·3	+1·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

NINETEENTH WEEK—May 5th to May 11th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)								
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	67	31	56·1	45·4	50·5	+ 3·9	60	+ 18	0	− 7	6	+ 2	1·48	+0·82	3·6	−1·8	22	−11
Eastern.																		
1. SCOTLAND, EAST ...	69	34	60·9	45·2	52·6	+ 5·6	74	+ 27	0	− 8	5	+ 2	0·61	+0·14	5·0	−0·8	32	− 5
2. ENGLAND, N.E.	78	40	64·4	47·6	55·5	+ 7·8	95	+ 50	0	− 4	3	0	0·21	−0·21	4·5	−1·8	29	−11
3. ENGLAND, EAST ...	82	42	67·6	50·4	58·5	+ 9·0	116	+ 58	0	− 4	2	− 1	0·09	−0·30	4·6	−1·9	31	−13
4. MIDLAND COUNTIES ...	81	39	65·7	50·2	57·5	+ 8·1	109	+ 49	0	− 5	3	0	0·16	−0·25	3·2	−2·8	21	−18
5. ENGLAND, S.E.	77	45	64·6	51·1	57·5	+ 6·7	109	+ 45	0	− 2	2	− 1	0·22	−0·19	3·9	−2·8	26	−19
Western.																		
6. SCOTLAND, WEST ...	64	37	58·4	47·2	52·5	+ 4·0	74	+ 21	0	− 3	5	+ 1	0·78	+0·13	2·5	−3·6	16	−23
7. ENGLAND, N.W.	68	40	60·6	49·0	54·5	+ 5·4	88	+ 35	0	− 2	5	+ 2	0·40	−0·09	1·8	−4·5	12	−30
8. ENGLAND, S.W.	73	45	61·1	51·0	55·7	+ 5·5	96	+ 36	0	− 1	3	+ 1	0·53	+0·07	1·2	−5·6	8	−36
9. IRELAND, NORTH ...	66	39	59·9	48·8	54·0	+ 5·0	84	+ 31	0	− 2	4	0	0·39	−0·16	1·6	−4·4	10	−28
10. IRELAND, SOUTH ...	70	45	62·3	52·0	56·9	+ 6·4	104	+ 43	0	− 1	5	+ 2	0·33	−0·20	1·9	−4·5	13	−29
11. ENGLISH CHANNEL ...	76	47	63·3	52·4	57·5	+ 5·7	109	+ 41	0	0	4	+ 1	0·35	0·00	4·0	−4·2	27	−29

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 10 Weeks, March 3rd to May 11th, 1912.

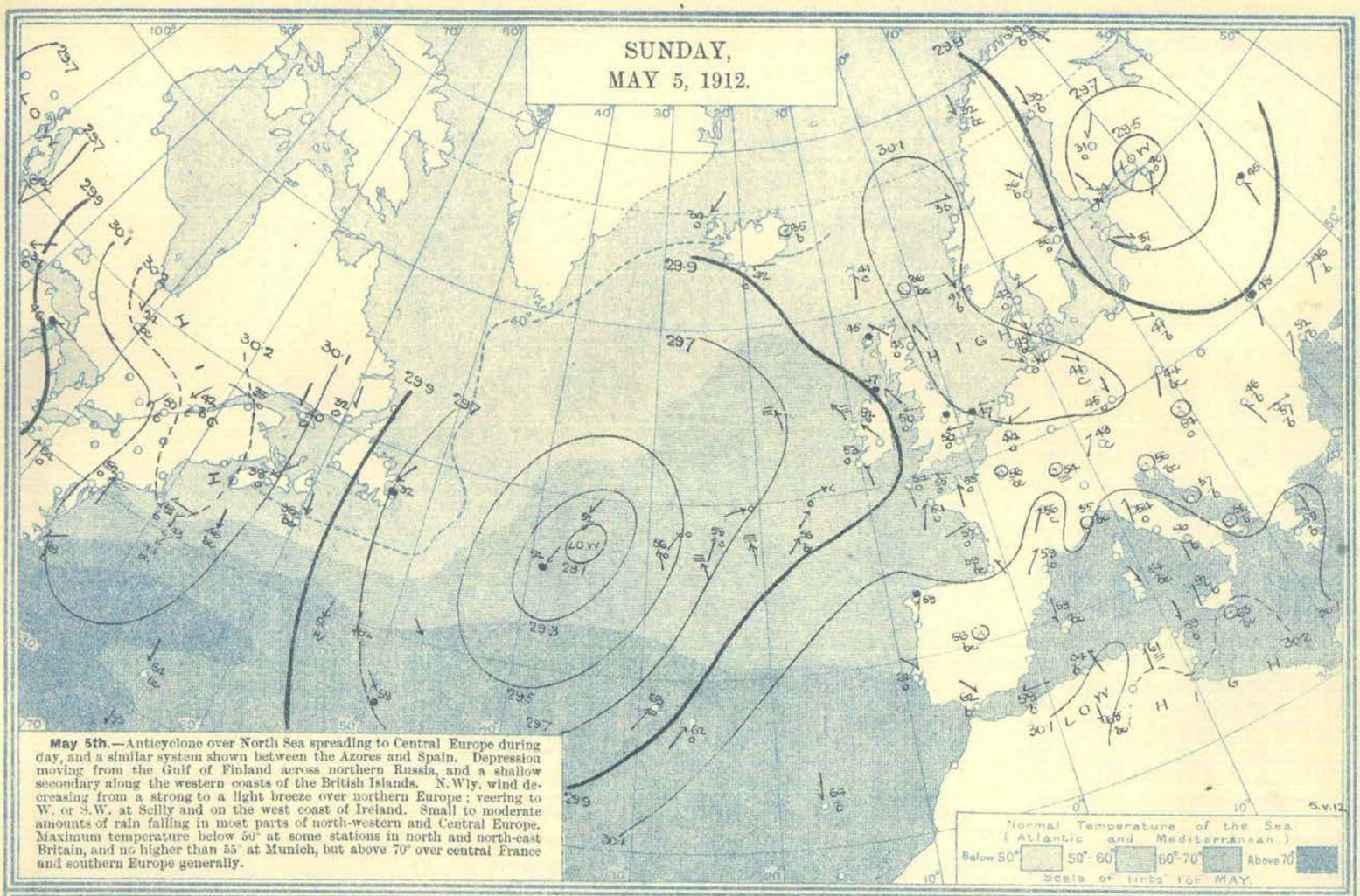
0. SCOTLAND, NORTH ...	71	25	*	*	*	*	287	+ 57	123	− 90	49	+ 3	11·43	+3·30	4·1	0·0	31	0
Eastern.																		
1. SCOTLAND, EAST ...	70	20	*	*	*	*	380	+ 95	161	− 69	38	0	4·01	−0·77	4·7	+0·2	35	+ 2
2. ENGLAND, N.E	78	26	*	*	*	*	427	+142	102	− 68	28	− 7	2·59	−1·29	4·9	0·0	37	0
3. ENGLAND, EAST ...	82	26	*	*	*	*	506	+136	67	−111	29	− 4	3·08	−0·54	5·5	+0·5	42	+ 3
4. MIDLAND COUNTIES ...	81	24	*	*	*	*	502	+119	101	− 89	28	− 4	3·89	−0·14	4·7	+0·1	36	+ 1
5. ENGLAND, S.E.	77	23	*	*	*	*	511	+116	48	− 73	26	− 5	3·83	−0·02	5·7	+0·7	43	+ 5
Western.																		
6. SCOTLAND, WEST ...	71	24	*	*	*	*	380	+ 79	75	− 82	42	+ 3	7·22	+0·16	4·4	−0·3	33	− 2
7. ENGLAND, N.W.	70	25	*	*	*	*	420	+106	67	− 66	34	− 2	5·10	0·00	4·6	+0·1	35	+ 1
8. ENGLAND, S.W.	73	24	*	*	*	*	475	+ 96	30	− 70	35	0	6·61	+1·00	4·5	−0·6	34	− 5
9. IRELAND, NORTH ...	69	30	*	*	*	*	417	+ 87	65	− 61	41	− 1	5·68	−0·12	3·8	−0·6	29	− 5
10 IRELAND, SOUTH ...	70	29	*	*	*	*	512	+112	37	− 56	45	+ 7	5·87	−0·40	4·5	−0·4	34	− 3
11. ENGLISH CHANNEL ...	76	35	*	*	*	*	585	+143	3	− 27	40	+ 3	6·11	+1·49	5·5	−0·6	42	− 4

THE YEAR.—Aggregates, &c., for the Period of 19 Weeks, December 31st, 1911, to May 11th, 1912.

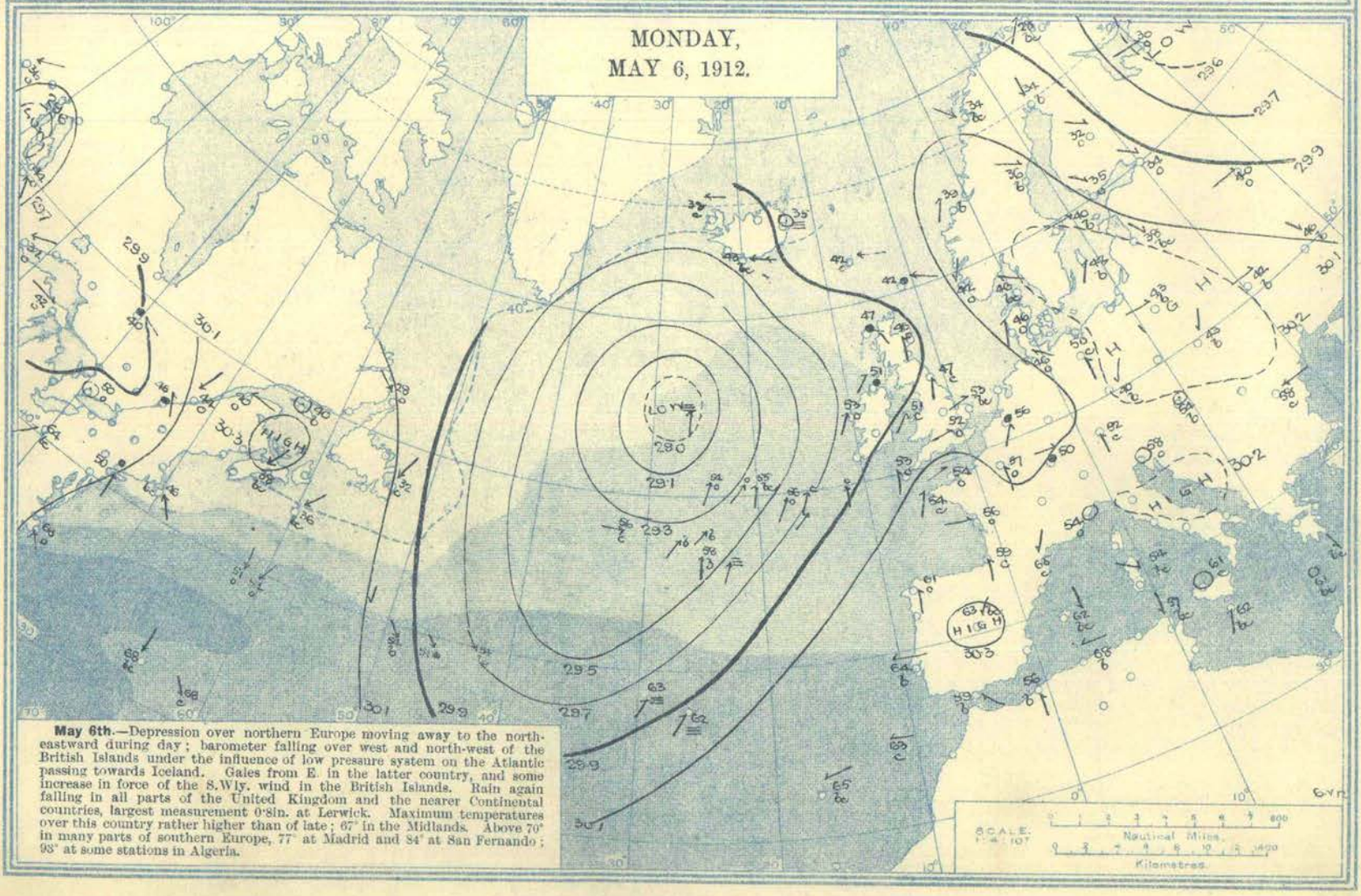
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	361	+ 71	419	−124	93	+ 1	19·00	−0·09	2·9	+0·1	27	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	70	−5	*	*	*	*	455	+102	504	−103	81	+ 8	9·40	−0·37	3·2	−0·1	29	− 1
2. ENGLAND, N.E.	78	10	*	*	*	*	528	+163	373	− 98	69	+ 1	7·09	−0·18	3·3	−0·2	30	− 2
3. ENGLAND, EAST ...	82	14	*	*	*	*	638	+178	274	−243	68	+ 1	7·37	+0·38	3·5	−0·2	32	− 1
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	629	+142	373	−153	66	+ 1	9·61	+1·40	3·1	−0·2	28	− 2
5. ENGLAND, S.E.	77	13	*	*	*	*	666	+153	218	−162	65	+ 2	9·65	+1·35	3·6	−0·1	32	0
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	471	+ 81	328	− 91	81	+ 2	15·97	+0·06	3·0	−0·3	27	− 2
7. ENGLAND, N.W.	70	7	*	*	*	*	544	+136	298	− 86	73	+ 1	10·94	+0·17	3·2	0·0	29	0
8. ENGLAND, S.W.	73	9	*	*	*	*	651	+123	189	−110	81	+10	14·79	+2·18	3·1	−0·6	28	− 5
9. IRELAND, NORTH ...	69	15	*	*	*	*	576	+121	236	−107	75	− 9	12·37	+0·04	2·8	−0·4	26	− 3
10. IRELAND, SOUTH ...	70	13	*	*	*	*	721	+135	167	− 91	91	+15	14·72	+0·90	3·3	−0·3	30	− 3
11. ENGLISH CHANNEL ...	76	27	*	*	*	*	906	+245	44	− 65	79	+ 1	12·44	+1·91	4·0	−0·5	35	− 5

NOTES ON TABLE IV.

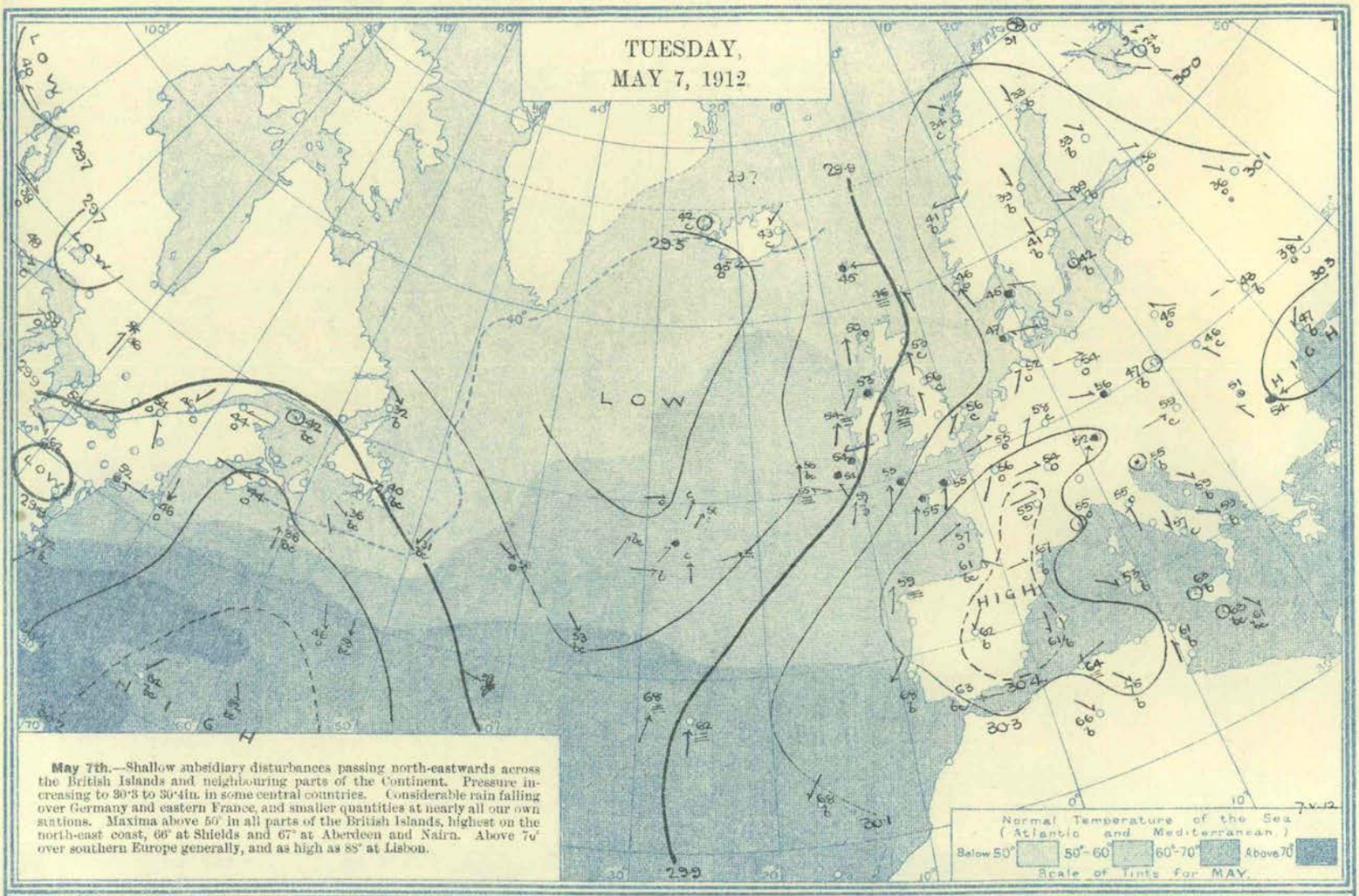
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



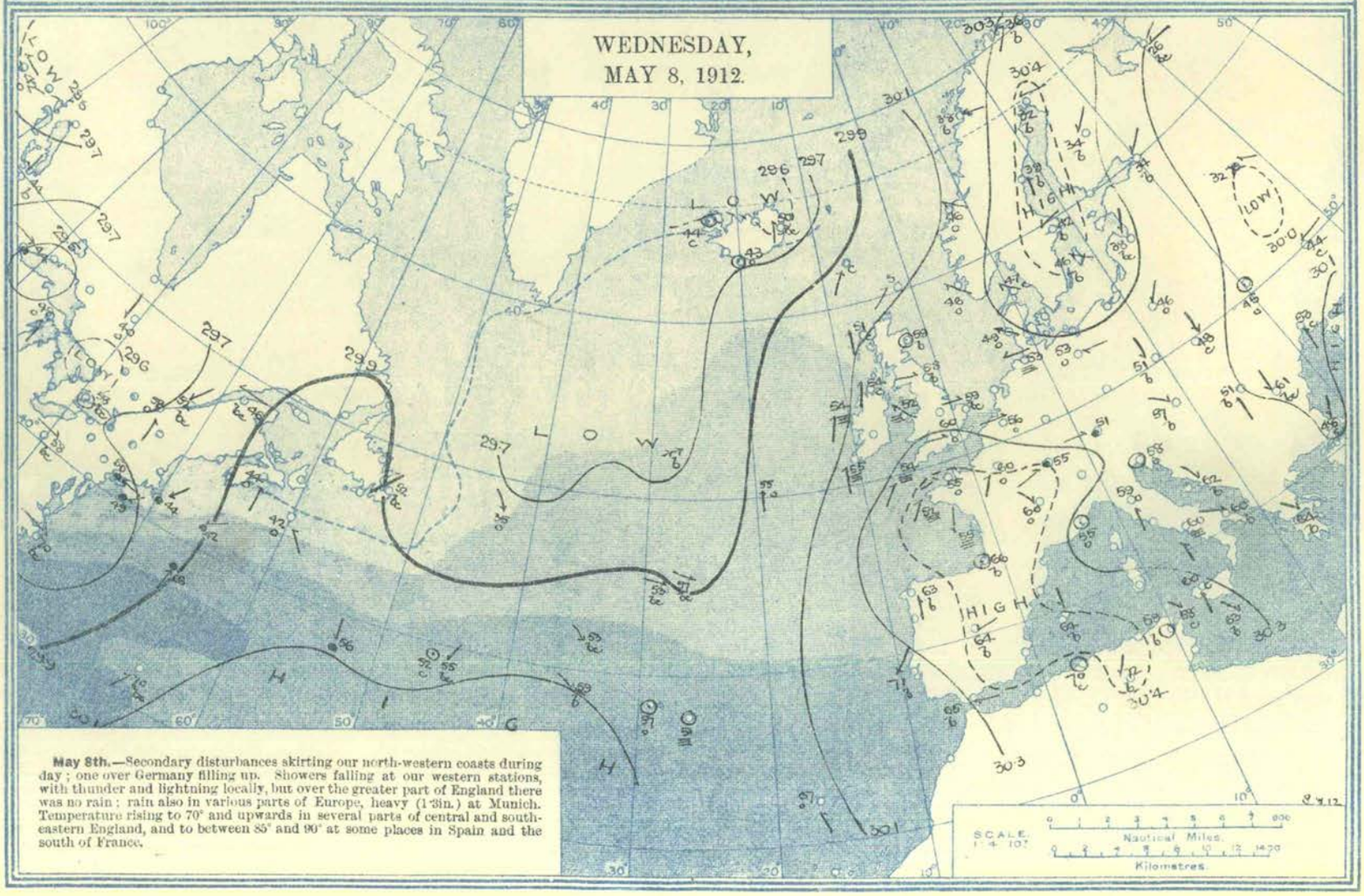
May 5th.—Anticyclone over North Sea spreading to Central Europe during day, and a similar system shown between the Azores and Spain. Depression moving from the Gulf of Finland across northern Russia, and a shallow secondary along the western coasts of the British Islands. N.Wly. wind decreasing from a strong to a light breeze over northern Europe; veering to W. or S.W. at Scilly and on the west coast of Ireland. Small to moderate amounts of rain falling in most parts of north-western and Central Europe. Maximum temperature below 50° at some stations in north and north-east Britain, and no higher than 55° at Munich, but above 70° over central France and southern Europe generally.



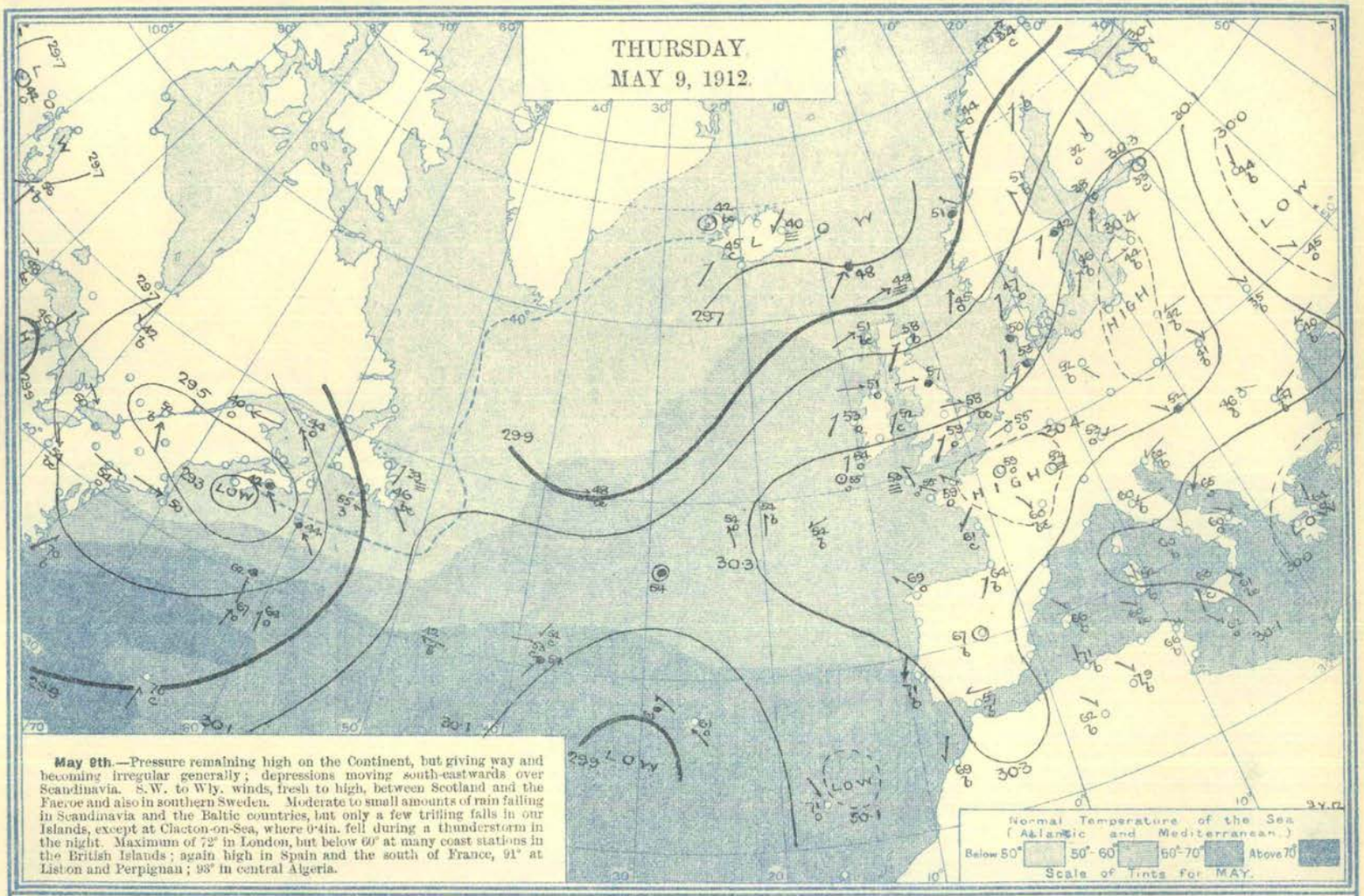
May 6th.—Depression over northern Europe moving away to the north-eastward during day; barometer falling over west and north-west of the British Islands under the influence of low pressure system on the Atlantic passing towards Iceland. Gales from E. in the latter country, and some increase in force of the S.Wly. wind in the British Islands. Rain again falling in all parts of the United Kingdom and the nearer Continental countries, largest measurement 0·81in. at Lerwick. Maximum temperatures over this country rather higher than of late; 67° in the Midlands. Above 70° in many parts of southern Europe, 77° at Madrid and 84° at San Fernando; 93° at some stations in Algeria.



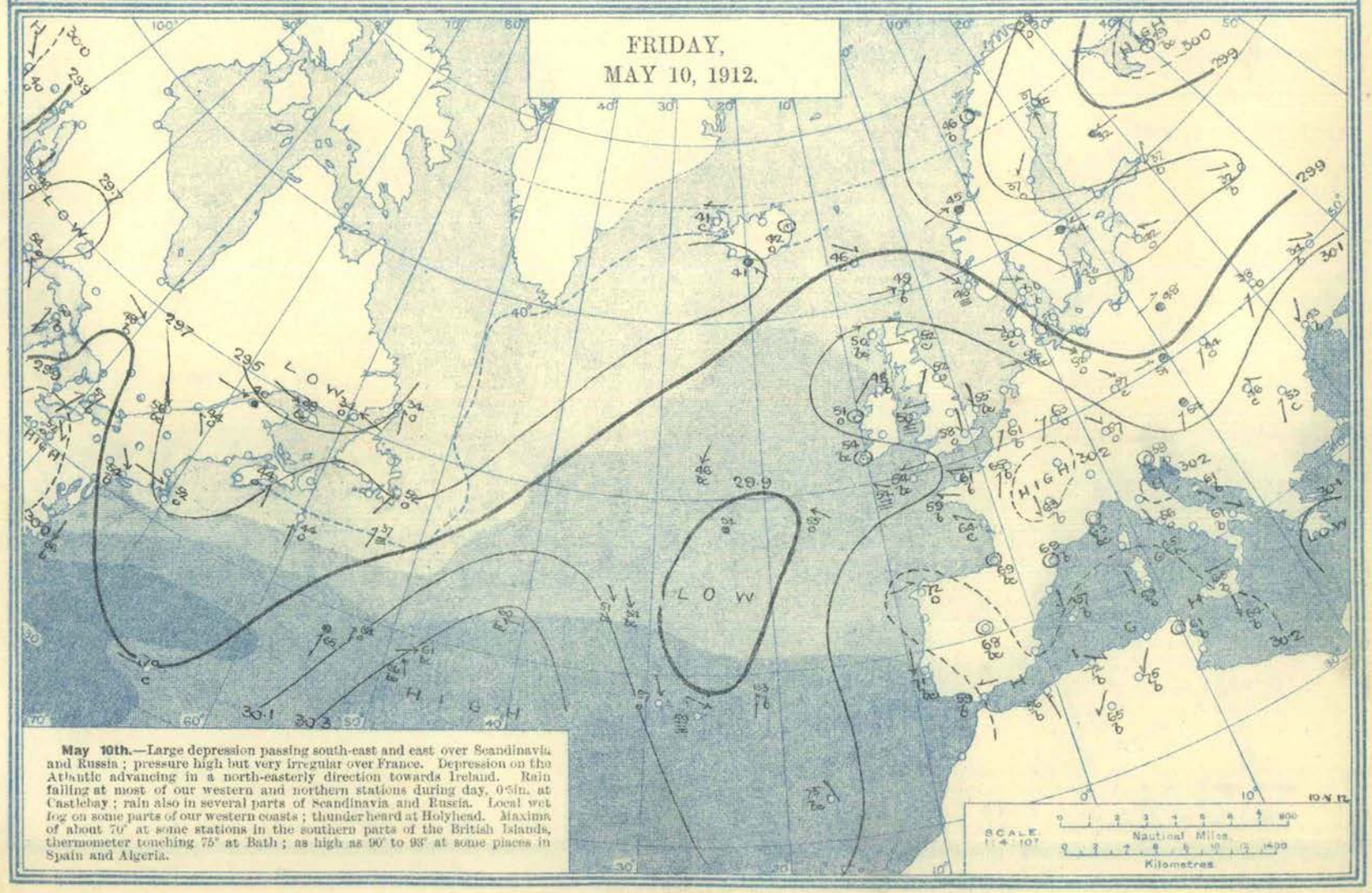
May 7th.—Shallow subsidiary disturbances passing north-eastwards across the British Islands and neighbouring parts of the Continent. Pressure increasing to 30·3 to 30·4in. in some central countries. Considerable rain falling over Germany and eastern France, and smaller quantities at nearly all our own stations. Maxima above 50° in all parts of the British Islands, highest on the north-east coast, 66° at Shields and 67° at Aberdeen and Nairn. Above 70° over southern Europe generally, and as high as 88° at Lisbon.



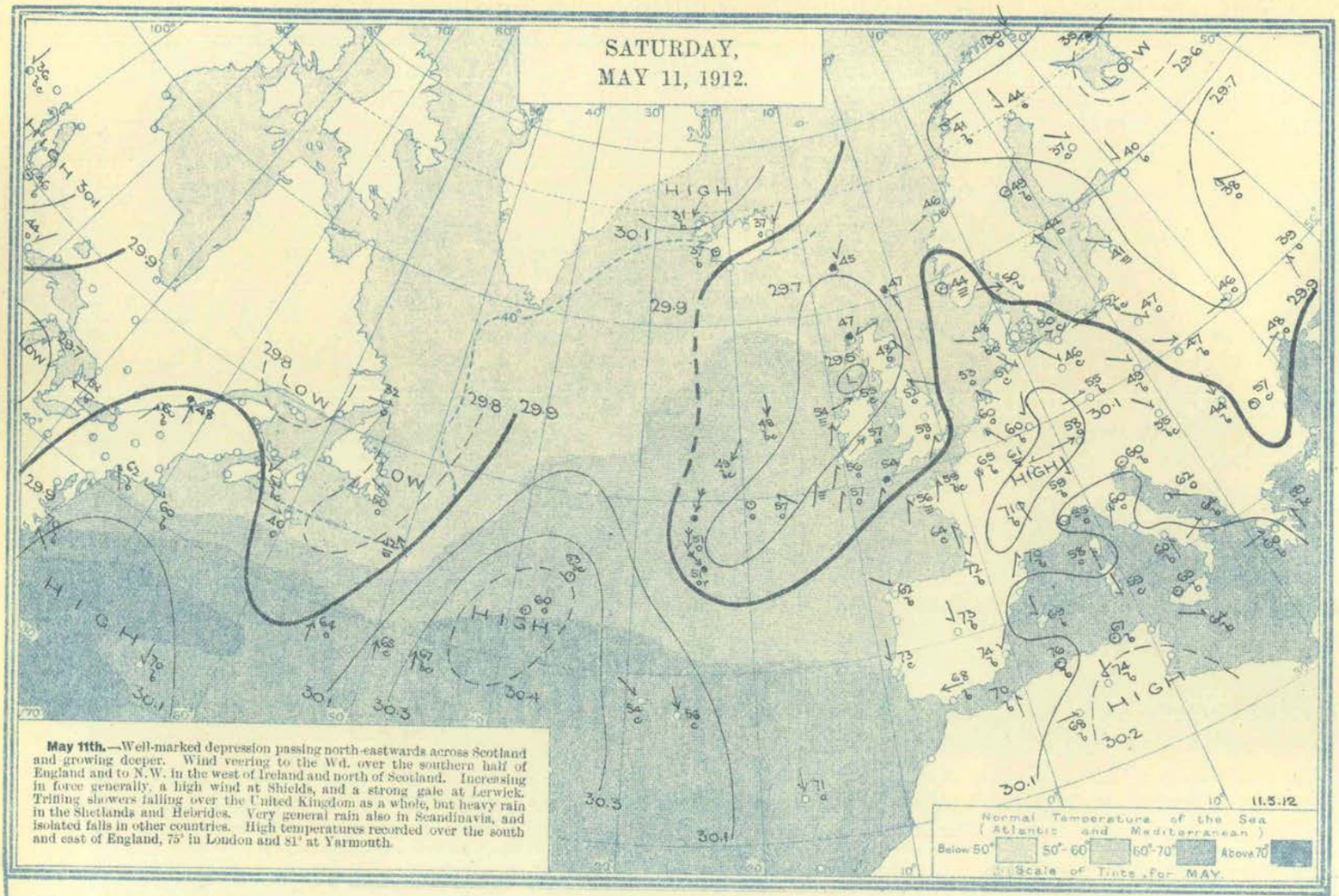
May 8th.—Secondary disturbances skirting our north-western coasts during day; one over Germany filling up. Showers falling at our western stations, with thunder and lightning locally, but over the greater part of England there was no rain; rain also in various parts of Europe, heavy (1·3in.) at Munich. Temperature rising to 70° and upwards in several parts of central and south-eastern England, and to between 85° and 90° at some places in Spain and the south of France.



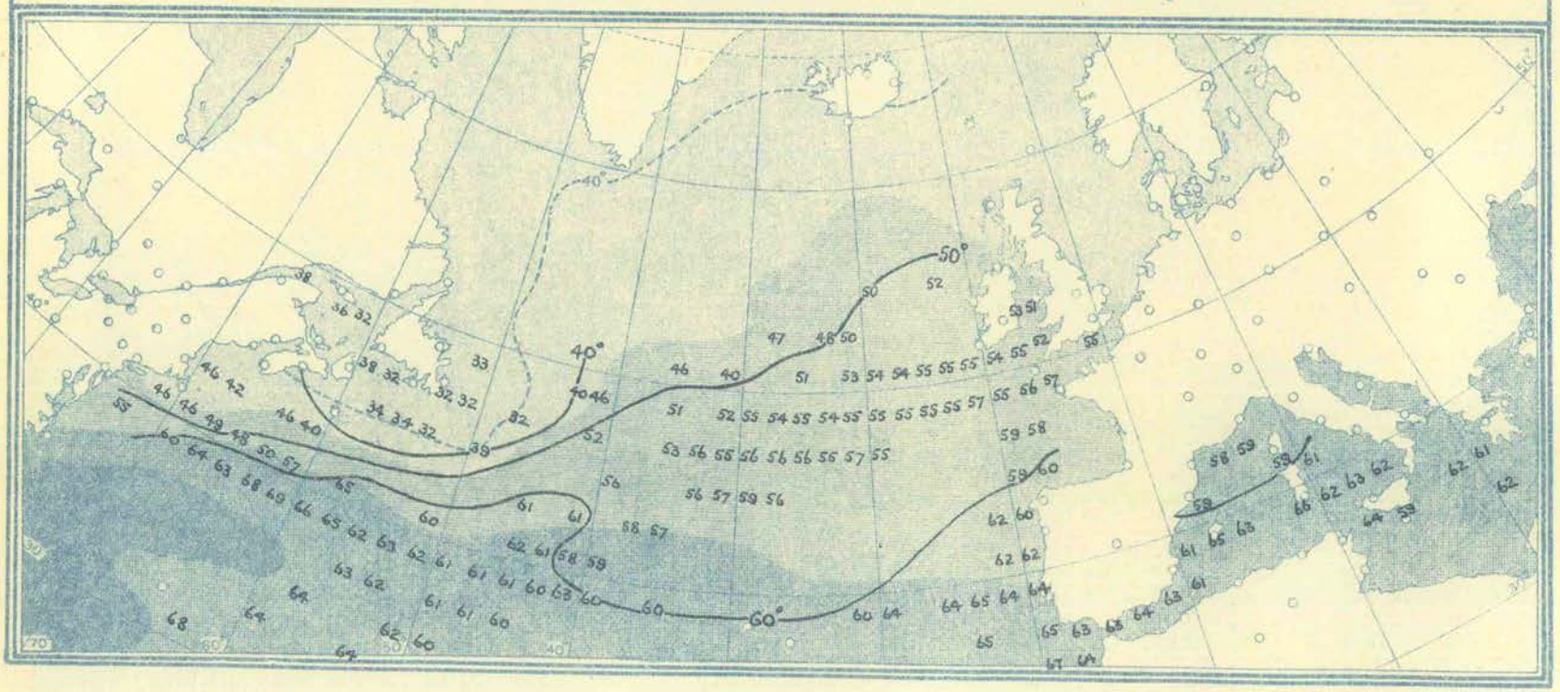
May 9th.—Pressure remaining high on the Continent, but giving way and becoming irregular generally; depressions moving south-eastwards over Scandinavia. S.W. to Wly. winds, fresh to high, between Scotland and the Faeroe and also in southern Sweden. Moderate to small amounts of rain falling in Scandinavia and the Baltic countries, but only a few trifling falls in our Islands, except at Clacton-on-Sea, where 0·4in. fell during a thunderstorm in the night. Maximum of 72° in London, but below 60° at many coast stations in the British Islands; again high in Spain and the south of France, 91° at Liston and Perpignan; 98° in central Algeria.



May 10th.—Large depression passing south-east and east over Scandinavia and Russia; pressure high but very irregular over France. Depression on the Atlantic advancing in a north-easterly direction towards Ireland. Rain falling at most of our western and northern stations during day, 0·5in. at Castlebay; rain also in several parts of Scandinavia and Russia. Local wet fog on some parts of our western coasts; thunder heard at Holyhead. Maxima of about 70° at some stations in the southern parts of the British Islands, thermometer touching 75° at Bath; as high as 90° to 98° at some places in Spain and Algeria.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 11TH. MAY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 20. TWENTIETH WEEK, SUNDAY, MAY 12TH, TO SATURDAY, MAY 18TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather was in a very changeable condition, with occasional falls of rain in all districts. Thunderstorms occurred in the south and east of England on Sunday, in a few isolated parts of our south-eastern counties on Monday and Wednesday, and over a considerable portion of England on Thursday; on the last mentioned day a sharp line squall passed over Raunds and Cambridge. A well-defined mirage was seen at Newquay between 10.30 a.m. and 11 a.m. on Saturday.

Temperature was above the average in all the English districts, and also in Scotland E., the greatest excess occurring in England E. In Ireland and the west and north of Scotland it was below the normal. The highest readings occurred mostly on the 14th or 15th, when the thermometer rose slightly above 70° in many parts of eastern and southern England and touched 73° in England E. (at Tottenham). In Scotland N. and W. the thermometer remained below 65° throughout the week. The lowest readings occurred mostly on the 13th or 14th, but in the south-east of England on the 17th, the values ranging from 27° in Scotland E. (at Balmoral) and 30° in Scotland W. and England N.W. to 39° in England S.E. and to 45° in the Midland Counties. On the surface of the grass the thermometer fell to 23° at Balmoral and Newton Rigg, 24° at Crathes, and 25° at West Linton and Armagh. At a depth of 1 foot and 4 feet below the surface of the soil, the mean temperature remained above the average, but in the east of Scotland the excess shown by the 1 foot thermometer was small.

Mean Temperature of the Sea was generally in excess of the average, but on several parts of the Irish and Scottish coasts it was lower than in the corresponding week of last year.

Rainfall was considerably in excess of the average in Scotland N. and E. and England N.E., and slightly above it in the Midland Counties and England S.E. Elsewhere there was a deficiency which was large in most of the western districts. A heavy fall occurred in many parts of north Britain on the 15th, the largest measurements being 1·6 in. at Wick and Gordon Castle, 1·1 in. at Crathes and 1·0 in. at Balmoral.

Bright Sunshine varied considerably in amount in different parts of the country. As a rule it was in fairly close agreement with the average, but in Scotland E. and W. and England N.W. there was a rather large excess. The daily mean values ranged from nearly 9½ hours in Scotland W., and a little over 8 hours in England N.W., to a trifle under 6 hours in the Midland Counties and England S.W.

Barometer and Wind. At the beginning of the week, when a depression was moving away from Scotland to Scandinavia, a shallow secondary disturbance advanced from the Bay of Biscay to the Channel and south of England, and for a time the wind over our Islands was light to moderate from the Northward. An anticyclone subsequently spread in from the Atlantic, causing light variable airs in most districts. Between the 14th and 16th a depression of increasing energy, which was originally shown over central Spain, moved northwards across England to the upper part of the North Sea, where it gradually dispersed. In the front of the disturbance a temporary shift of wind to the Eastward took place, but in its rear a strong Westerly current set in, with a gale on the coast of Aberdeenshire. Towards the close of the period the Westerly wind gradually moderated in force.

THE WEEK.

For explanation of the terms "Unusual" &c., *see* p. 79		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual	Deficient	Moderate	Unusual
	Rainfall ...	Heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Light	Light	Moderate	Light	Light	Moderate
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 11 weeks from March 3rd, 1912.	Warmth ...	6 * 1	7 * 0	8 * 0	8 * 0	8 * 0	7 * 0	6 * 1	7 * 0	7 * 0	7 * 1	7 * 0	8 * 0
	Rainfall ...	5 * 3	4 * 3	3 * 7	2 * 5	3 * 7	2 * 5	2 * 4	3 * 4	3 * 4	2 * 3	2 * 4	3 * 4
	Sunshine ...	3 * 2	4 * 2	2 * 5	3 * 3	3 * 4	6 * 3	3 * 2	5 * 3	2 * 4	2 * 6	2 * 4	2 * 5

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(24471—24.) Wt. 173—814. 450. 5/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*53*	*17th*	*37*	*13th*	*51·0*	*42·9*	*46·7*	—	*33*	*0*	•	•	47·3		•		*6*	*0·82*	—	*4·0*	—	*24*	—	*Baltasound.*
a Islands .. *a* Lerwick	53	17th	38	13th	50·3	43·3	46·6	+ 1·7	32	0	•	•	•		•		6	1·62	—	5·3	- 0·4	32	- 3	Deerness.
a Stornoway	57	17th	37	13th	52·6	41·1	46·5	- 0·5	35	3	•	•	•		•		7	0·66	+ 0·10	6·9	+ 0·7	42	+ 4	Stornoway.
a Castlebay, Barra Isd. ..	*53*	*16, 18*	*38*	*13th*	*51·1*	*43·6*	*47·1*	- *3·4*	*36*	*0*	•	•	•		•		*4*	*0·38*	—	*9·0*	—	*55*	—	*Castlebay.*
a Wick	56	14th	?35	14th	51·1	?40·6	45·5	- 1·4	30	4	•	•	•		•		4	2·03	+ 1·58	•	•	•	•	
p Strathpeffer ..	61	14th	35	14th	55·6	41·1	47·9	+ 0·1	45	3	•	•	•		•		5	0·11	- 0·33	5·8	+ 0·3	36	+ 2	Strathpeffer.
b, Main- *p* Glencarron ..	55	14, 17	37	13th	52·0	41·5	46·4	- 0·4	33	1	•	•	•		•		5	0·92	- 0·11	•	•	•	•	
land. *p* Fort Augustus..	60	17th	31	13th	56·4	40·3	47·9	+ 0·1	48	5	•	•	•		•		4	0·34	- 0·18	6·0	+ 1·6	37	+10	Fort Augustus.
p Fort William ..	62	17th	33	13th	57·7	41·1	48·9	- 0·4	52	3	•	•	•		•		5	0·52	- 0·32	•	•	•	•	
1. SCOTLAND, E.											3	24	50·2	+0·5	47·8	+1·9	—	—	—	7·6	—	47	—	Crathes S.
p Gordon Castle.. S	64	14th	39	13th	56·9	41·6	48·8	+ 0·3	49	1	•	•	•		•		4	1·95	+ 1·51	*6·7*	—	*41*	—	*Gordon Castle.*
a Nairn	62	14th	36	14th	56·4	40·4	47·9	- 0·6	48	4	•	•	•		•		5	0·75	+ 0·38	7·4	—	45	—	Nairn.
a Aberdeen ..	65	14th	36	14th	56·6	41·9	48·8	+ 1·1	48	0	•	•	•		47·8	+2·4	4	1·21	+ 0·73	8·3	+ 2·2	51	+14	Aberdeen.
a Balmoral ..	64	18th	27	13th	60·7	37·3	48·3	+ 2·8	64	13	3	23	•		•		4	1·29	+ 0·76	•	•	•	•	Balmoral.
p Crieff	64	17th	36	13th	59·4	40·1	49·2	- 0·5	58	5	•	•	•		•		2	0·13	- 0·42	6·9	—	43	—	Balruddery.
a Leith	64	15th	40	13th	59·3	44·1	51·2	+ 1·8	64	0	•	•	•		•		2	0·40	+ 0·02	•	•	•	•	
p West Linton ..	61	15th	31	14th	57·7	36·3	46·4	- 0·1	55	16	5	25	•		•		2	0·15	—	*6·6*	—	*41*	—	*West Linton.*
p Marchmont ..	61	14, 15	34	14th	57·6	39·6	48·1	+ 0·6	53	7	1	28	50·1	+0·3	•		1	0·63	+ 0·09	7·8	+ 2·1	49	+13	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	66	14th	34	14th	59·9	40·3	49·5	+ 1·6	60	5	2	28	51·2	+1·0	49·5	+2·7	2	0·62	+ 0·13	8·2	—	51	—	Cockle Park.
a Shields	65	14th	37	14th	58·3	41·0	49·1	+ 0·9	54	3	•	•	•		•		2	0·79	+ 0·41	•	•	•	•	*Newcastle.*
p Durham	66	15th	31	14th	59·7	39·1	48·8	+ 0·2	60	8	2	27	•		•		2	0·68	+ 0·26	6·6	+ 1·1	42	+ 7	Durham.
a, North .. *p* Rounton	68	15th	34	13, 14	61·4	40·6	50·4	+ 2·6	65	4	1	29	52·8		•		2	0·65	+ 0·25	•	•	•	•	Rounton.
a West Witton	*64*	*14, 15*	*35*	*14th*	*60·3*	*41·3*	*50·2*	—	*60*	*2*	1	30	53·2		47·2		*2*	*0·47*	—	•	•	•	•	*West Witton.*
p Scarborough ..	62	18th	41	13th	59·0	45·6	51·9	+ 2·9	69	0	•	•	•		•		2	0·56	+ 0·15	5·2	—	33	—	Scarborough.
p York	67	14, 15	40	13th	62·9	44·4	53·1	+ 2·3	78	0	•	•	53·3	+2·4	49·7	+2·2	3	0·65	+ 0·21	6·8	+ 1·1	43	+ 7	York.
a Spurn Head	60	14, 18	43	13th	56·4	46·0	50·9	+ 1·2	62	0	0	31	54·0	+2·4	48·3	+1·3	2	0·32	- 0·04	*5·3*	—	*33*	—	*Hull.*
b, South .. *a* Lincoln	68	14th	42	13th	61·4	45·6	53·0	+ 1·8	77	0	•	•	55·4	+3·2	50·5	+2·6	3	0·34	- 0·07	•	•	•	•	Lincoln.
a Fulbeck	68	14th	39	13th	61·4	44·4	52·4	+ 1·9	73	0	0	34	56·2	+1·1	51·3	+2·4	3	0·41	- 0·02	6·2	—	40	—	Rauceby.
											•	•	•		•		—	—	—	5·6	—	36	—	Skegness.
3. ENGLAND, E.											0	39	56·0	+1·5	52·0	+2·1	—	—	—	*7·0*	—	*45*	—	*Lowestoft.*
p Cromer	70	14th	43	12, 14	60·6	44·5	52·1	+ 2·4	71	0	•	•	•		•		4	0·27	—	6·0	- 0·6	39	- 4	Cromer.
p Hillington											•	•	•		•		—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	64	15th	45	13, 17, 18	59·4	47·3	53·0	+ 3·4	77	0	•	•	58·6	+2·7	54·4	+2·7	3	0·45	+ 0·07	7·1	—	46	—	Yarmouth.
a Norwich	69	15th	40	14th	62·4	46·0	53·7	+ 3·5	82	0	0	33	56·6		•		4	0·44	—	*6·5*	—	*42*	—	*Norwich.*
p Geldeston	67	12th	42	13, 14, 18	62·3	44·9	53·1	+ 2·6	78	0	0	34	•		•		3	0·27	- 0·13	6·9	- 0·1	44	- 1	Geldeston.
p Cambridge	69	15th	42	17th	63·3	45·1	53·7	+ 1·8	82	0	0	35	57·8	+3·8	53·5	+2·9	4	0·30	- 0·11	6·8	+ 0·3	44	+ 2	Cambridge.
a Felixstowe	*66*	*12th*	*43*	*13th*	*60·3*	*48·4*	*54·0*	+ *3·3*	*84*	*0*	•	•	•		•		*4*	*0·27*	—	*8·3*	—	*54*	—	*Felixstowe.*
a Clacton-on-Sea ..	66	12th	44	17th	60·3	48·9	54·3	+ 4·2	86	0	0	38	55·3	+1·7	53·1	+2·0	4	0·43	—	8·1	—	53	—	Clacton.
b, South .. *a* Rothamsted ..	71	12th	36	14th	64·3	46·4	54·8	+ 4·1	90	0	•	•	•		•		4	0·22	- 0·21	6·5	+ 0·2	42	+ 2	Rothamsted.
a Shoeburyness	*67*	*15th*	*44*	*17th*	*61·4*	*48·1*	*54·4*	+ *1·7*	*87*	*0*	0	37	59·4	+4·3	•		*4*	*0·35*	+ *0·10*	*8·2*	—	*53*	—	*Southend.*
p Tottenham	73	14th	44	14th	65·4	47·9	56·1	+ 4·3	99	0	0	40	•		54·8	+4·4	3	0·39	—	7·7	—	50	—	Tottenham.
4. MIDLAND COUNTIES.											0	34	53·7	+2·3	47·6	+2·2	—	—	—	*6·6*	—	*42*	—	*Huddersfield.*
a Harrogate	63	14, 15	37	14th	59·7	41·7	50·2	+ 1·5	59	1	0	34	51·4	+2·7	49·5	+2·5	2	0·51	+ 0·04	7·2	—	45	—	Harrogate.
a Bawtry	68	14th	35	13th	61·0	42·3	51·1	+ 0·4	64	0	1	28	53·2		50·8		2	0·51	+ 0·09	5·3	- 0·1	34	- 1	Worksop.
p Buxton	*63*	*14th*	*38*	*13, 16*	*56·1*	*41·4*	*48·3*	+ *1·1*	*47*	*2*	1	30	52·2	+1·1	47·6	+1·9	*3*	*1·32*	+ *0·62*	*6·2*	—	*40*	—	*Buxton.*
a East .. *a* Nottingham	69	14th	41	13th	61·3	45·0	52·7	+ 1·9	75	0	0	36	55·3	+2·8	50·5	+2·5	3	0·37	- 0·04	5·2	—	33	—	Nottingham.
p Birmingham, Edgbn.	67	14th	40	16th	60·1	45·8	52·4	+ 1·9	73	0	0	34	51·2	+2·2	48·5	+2·1	3	0·58	+ 0·12	5·3	—	34	—	Birmingham.
a Raunds	70	14th	42	18th	64·1	45·6	54·3	+ 3·4	86	0	0	36	54·2	—	49·9	—	4	0·56	—	•	•	•	•	Raunds.
a Oxford	70	14th	43	17th	62·7	47·3	54·5	+ 2·8	88	0	•	•	•		•		4	0·54	+ 0·14	4·9	- 1·4	32	- 9	Oxford.
											0	36	53·1	+2·8	48·2	+2·1	—	—	—	6·8	—	43	—	Sheffield.
a Cheadle	70	14, 18	42	16, 17	66·3	45·6	55·3	+ 5·9	93	0	0	35	•		•		2	0·51	+ 0·04	•	•	•	•	Cheadle.
p Shrewsbury ..	69	14th	39	14th	61·1	43·9	52·0	+ 0·7	70	0	0	34	•		•		3	0·54	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	65	13th	40	16th	61·0	45·8	52·9	+ 1·4	76	0	0	36	•		•		3	0·70	+ 0·23	•	•	•	•	Hereford.
a Cirencester ..	68	14th	40	14th	61·7	44·9	52·8	+ 2·6	76	0	0	40	54·4		51·3		4	0·43	- 0·04	5·9	- 0·6	38	- 4	Cirencester.
a Bath	69	14th	43	14th	63·4	47·6	55·0	+ 3·0	91	0	•	•	57·4	+2·7	53·7	+2·3	3	0·60	+ 0·17	6·3	—	41	—	Bath.
5. ENGLAND, S.E.											0	35	60·1	+6·3	53·9	+3·2	—	—	—	•	•	•	•	Canterbury.
p Kew	71	14th	45	16, 17	64·4	48·3	55·9	+ 3·6	97	0	0	34	57·2	+3·5	52·3	+2·8	4	0·56	+ 0·20	6·0	- 0·4	39	- 3	Kew.
a Marlborough	67	14th	39	17th	63·1	44·6	53·3	+ 3·3	79	0	0	34	•		•		3	0·44	+ 0·01	5·8	- 0·2	38	- 1	Marlborough.
a Margate											•	•	•		•		—	—	—	•	•	•	•	Margate.
a Wisley, Surrey ..	69	12, 14	43	17th	64·4	47·7	55·6	+ 3·4	95	0	0	35	57·4	+3·3	53·4	+3·0	4	0·43	—	6·2	—	40	—	Wisley
a Swarraton	69	12th	41	17th	63·1	47·4	54·8	+ 4·3	90	0	0	38	58·3	+2·9	54·1	+3·2	4	0·47	+ 0·02	7·8	—	51	—	Worthing.
a Tunbridge Wells ..	71	12th	40	17th	64·0	46·0	54·5	+ 3·3	88	0	0	36	58·7	+3·5	•	•	4	0·49	+ 0·09	7·9	+ 1·3	51	+ 9	Tunbridge Wells.
a Dungeness	66	12th	42	17th	60·7	49·1	54·6	+ 3·3	88	0	•	•	•		•		2	0·15	- 0·12	7·4	—	48	—	Littlestone.
p Hastings..	71	12th	42	17th	61·6	47·3	54·0	+ 2·3	84	0	0	37	58·4		53·3		4	0·43	+ 0·06	*7·9*	+ *0·4*	*52*	+ *2*	*Hastings.*
p Southampton	72	12th	44	17th	63·4	49·6	56·1	+ 2·5	99	0	0	38	•		•		4	0·45	+ 0·01	6·2	- 0·8	41	- 5	Southampton.
a Ventnor	70	12th	46	17th	61·6	49·7	55·3	+ 2·6	93	0	•	•	•		•		5	0·49	+ 0·12	6·6	- 0·7	43	- 5	Ventnor.
											0	42	58·7	+2·8	55·0	+3·0	—	—	—	*6·5*	—	*43*	—	*Portsmouth.*
											•	•	57·1	•	53·2	•	—	—	—	8·3	+ 1·0	54	+ 6	Eastbourne.
											•	•	56·1	•	54·3	•	—	—	—	*7·2*	—	*47*	—	*Bournemouth.*
LONDON.											0	36	•	•	54·5	•	—	—	—	*7·7*	+ *0·7*	*50*	+ *4*	*Brighton.*
a Westminster	*69*	*12, 14*	*45*	*17th*	*64·1*	*50·1*	*56·7*	+ *3·9*	*103*	*0*	0	44	•	•	•	•	*4*	*0·49*	+ *0·13*	*7·3*	+ *2·0*	*47*	+*13*	*Westminster.*
a Greenwich	*72*	*12th*	*43*	*17th*	*66·1*	*48·0*	*56·5*	+ *3·6*	*102*	*0*	0	33	•	•	•	•	*4*	*0·69*	+ *0·31*	*7·6*	+ *1·6*	*49*	+*11*	*Greenwich.*
a Hampstead	*68*	*14th*	*41*	*17th*	*62·9*	*46·7*	*54·3*	—	*86*	*0*	0	35	•	•	•	•	*4*	*0·45*	—	*7·2*	—	*47*	—	*Hampstead.*
a Camden Square ..	*73*	*14th*	*43*	*17th*	*66·7*	*48·1*	*56·8*	—	*104*	*0*	0	38	•	•	•	•	*4*	*0·41*	—	*6·0*	—	*39*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	59	14th	33	13th	55·0	42·4	48·3	- 1·6	44	0	•	•	•	•	•	•	4	0·53	- 0·08	•	•	•	•	
p Glasgow	62	14th	40	13th	58·0	43·9	50·5	+ 0·8	60	0	0	33	•	•	•	•	3	0·10	- 0·47	7·3	+ 2·0	46	+13	Glasgow.
p Rothesay .. S	62	14th	37	13th	58·4	42·9	50·2	+ 0·5	57	0	•	•	•	•	49·1	+1·8	5	0·56	- 0·09	•	•	•	•	
a Kilmarnock ..	63	14th	32	13th	58·9	40·9	49·4	- 0·4	56	3	•	•	•	•	•	•	1	0·06	—	*8·8*	—	*55*	—	*Kilmarnock.*
a Colmonell ..	63	14th	30	13th	57·7	41·1	48·9	- 1·1	52	3	1	27	•	•	•	•	2	0·26	- 0·32	•	•	•	•	
p Dumfries ..	62	15th	37	14th	58·6	42·6	50·1	- 0·4	57	0	2	29	52·7	•	50·9	•	4	0·18	- 0·39	*8·4*	—	*53*	—	*Dumfries.*
p Cally, Gatehouse	60	12th	32	13th	58·0	38·3	47·6	- 2·3	55	10	•	•	•	•	•	•	1	0·01	- 0·69	•	•	•	•	
b I. OF MAN.																								
p Douglas	60	15th	40	13, 14	56·4	43·0	49·3	- 0·3	51	0	0	35	•	•	•	•	2	0·05	- 0·52	11·5	+ 4·3	72	+27	Douglas.
											1	27	52·2	+1·2	47·9	+1·6	—	—	—	*7·2*	—	*46*	—	*Burnley.*
											1	26	•	•	•	•	—	—	—	8·2	—	52	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	62	14th	39	14th	58·3	42·1	49·7	+ 0·5	54	0	1	30	52·8	•	48·8	•	3	0·19	- 0·38	8·5	—	54	—	Aspatria.
p Newton Rigg	62	14th	39	14th	59·0	39·6	48·7	+ 0·2	57	7	3	23	52·1	+1·1	48·5	+1·9	2	0·24	- 0·30	9·2	+ 2·9	58	+18	Newton Rigg.
p Stonyhurst	64	14th	37	14th	57·7	44·0	50·4	+ 0·5	59	0	1	28	•	•	•	•	2	0·66	+ 0·03	7·2	+ 1·0	46	+ 6	Stonyhurst.
p Blackpool	61	14th	34	14th	56·9	43·4	49·8	- 0·6	55	0	•	•	•	•	•	•	2	0·13	- 0·35	9·5	+ 3·0	61	+19	Blackpool.
p Manchester, Prestwich											•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
a Liverpool (Bidston) ..	65	15th	43	14th	57·7	46·0	51·5	+ 0·8	67	0	•	•	•	•	•	•	1	0·07	- 0·35	*8·2*	—	*52*	—	*Liverpool.*
a Hawarden Bridge ..	66	14th	40	13th	59·0	46·3	52·3	+ 0·5	72	0	2	26	55·2	+0·2	52·2	+0·9	3	0·32	- 0·08	*8·9*	+ *2·1*	*57*	+*13*	*Southport.*
											0	41	53·7	+2·4	51·0	+3·5	—	—	—	*5·5*	—	*35*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	65	14th	41	14th	59·9	46·7	52·9	+ 2·1	76	0	•	•	•	•	•	•	1	0·01	- 0·42	8·9	+ 2·3	57	+15	Llandudno.
a Holyhead	62	14th	41	14th	58·0	45·4	51·3	+ 1·2	65	0	•	•	•	•	•	•	0	0·00	- 0·42	7·3	—	47	—	Aberdovey.
p Bettws-y-Coed ..	65	14th	35	14th	60·6	43·7	51·6	+ 0·6	67	0	0	35	52·7	+2·1	50·1	+2·5	2	0·17	—	6·3	—	40	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	67	14th	32	13th	59·3	42·3	50·3	+ 0·8	58	0	1	30	52·7	+1·3	48·9	+1·3	5	0·27	—	6·7	—	43	—	Aberystwyth.
a Pembroke	61	12th	45	13, 16, 17	57·4	47·1	51·9	+ 1·8	69	0	*	*	*	*	*	*	5	0·14	- 0·28	5·9	—	38	—	Llangammarch
p Cardiff	68	14th	41	16th	60·1	44·7	51·9	- 0·3	69	0	0	34	56·9	+2·9	52·2	+2·8	5	0·76	+ 0·21	7·1	0·0	46	0	Pembroke.[Wells
																				6·6	—	*43*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	68	14th	45	16th	61·9	48·9	55·0	+ 2·5	91	0	0	42	*	*	*	*	4	0·62	+ 0·12	*6·0*	—	*39*	—	*Clifton.*
a Shaftesbury	64	12th	40	16th	59·9	45·6	52·3	+ 1·9	72	0	*	*	56·5	*	*	*	3	0·16	- 0·31	*	*	*	*	Shaftesbury.
a Arlington	65	14th	41	14, 16	57·9	44·5	50·8	+ 0·9	64	0	*	*	55·6	*	*	*	4	0·54	- 0·09	6·3	- 0·7	41	- 5	Newquay.
a Cullompton	71	14th	40	14th	63·6	47·0	54·8	+ 3·0	90	0	0	38	58·3	*	*	*	5	0·70	+ 0·23	4·7	- 1·7	31	-12	Cullompton.
a Portland	68	12th	47	17th	58·1	49·4	53·5	+ 2·0	81	0	*	*	*	*	*	*	3	0·39	—	*6·7*	—	*44*	—	*Weymouth.*
p Plymouth	67	14th	45	16th	61·8	49·4	55·2	+ 2·6	92	0	0	38	57·9	+2·4	*	*	2	0·20	- 0·25	5·4	- 1·6	35	-11	Plymouth.
p Falmouth	63	14th	45	16th	59·3	49·1	53·9	+ 2·2	83	0	*	*	*	*	*	*	4	0·39	- 0·09	5·3	- 2·3	35	-15	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	60	14th	42	13, 16	54·1	44·3	48·9	- 0·3	48	0	*	*	*	*	*	*	4	0·09	- 0·39	*	*	*	*	
a Blacksod Point ..	57	14th	41	16th	54·9	44·9	49·6	- 1·0	53	0	*	*	*	*	*	*	2	0·31	- 0·30	*	*	*	*	
p Markree Castle ..	61	14, 17	33	14th	57·7	38·9	47·7	- 1·9	53	9	2	28	53·8	*	50·6	*	5	0·86	+ 0·06	5·3	- 0·7	33	- 5	Markree Castle.
a Birr Castle	65	12th	33	13th	59·9	40·6	49·7	- 0·9	60	4	*	*	*	*	*	*	3	0·11	- 0·41	*7·1*	+ *1·1*	*46*	+ *7*	*Birr Castle.*
b, East .. *p* Armagh	63	14th	33	13th	58·7	39·0	48·3	- 1·3	57	8	3	25	53·4	+0·2	50·8	+1·4	3	0·09	- 0·48	7·8	+ 1·8	49	+11	Armagh.
a Donaghadee	61	14th	39	13th	56·4	42·4	49·0	- 0·7	49	0	*	*	*	*	*	*	1	0·11	- 0·41	*	*	*	*	
10. IRELAND, S.											2	28	55·0	+2·9	52·2	+2·4	—	—	—	*	*	*	*	Trinity Coll.
a, East .. *p* Dublin, City	64	14th	39	13, 16	59·9	43·7	51·3	- 0·7	65	0	2	27	*	*	*	*	—	—	—	7·9	+ 1·1	50	+ 7	Phœnix Park.
a Kilkenny	63	14th	36	13, 14, 15	59·7	40·6	49·6	- 1·1	59	4	0	35	*	*	*	*	3	0·09	- 0·38	*	*	*	*	Dublin City.
a Waterford	63	17th	38	13, 14, 15	60·1	42·3	50·7	- 0·7	61	0	*	*	*	*	*	*	3	0·09	- 0·41	*	*	*	*	
																	1	0·05	- 0·46	*	*	*	*	
a Birr Castle	65	12th	33	13th	59·9	40·6	49·7	- 0·9	60	4	*	*	*	*	*	*								
a Foynes	61	14th	39	13th	57·9	44·4	50·8	- 1·0	62	0	*	*	*	*	*	*	3	0·11	- 0·41	7·1	+ 1·1	46	+ 7	Birr Castle.
b, West .. *a* Cahir	64	14, 17	36	13th	60·9	42·0	50·9	- 0·1	62	0	*	*	*	*	*	*	3	0·14	- 0·36	*	*	*	*	
a Killarney	67	14th	40	13th	60·4	45·0	52·2	+ 1·2	71	0	*	*	*	*	*	*	4	0·12	—	*	*	*	*	
a Valencia	59	14th	43	16th	56·9	46·9	51·6	+ 0·1	67	0	*	*	*	*	*	*	4	0·35	- 0·32	*	*	*	*	
a Roche's Point	60	12th	42	13, 14	57·4	44·9	50·8	- 0·7	62	0	*	*	*	*	*	*	4	0·10	- 0·60	7·8	+ 0·9	51	+ 6	Valencia.
																	3	0·06	- 0·48	7·3	—	47	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	61	13th	45	16th	59·0	48·9	53·7	+ 1·7	82	0	*	*	*	*	*	*	4	0·29	- 0·08	5·1	- 2·5	33	-17	Scilly.
a Jersey, St. Aubins ..	74	12th	46	17th	64·1	51·6	57·5	+ 4·1	109	0	*	*	*	*	*	*	3	0·17	- 0·28	6·9	- 1·1	46	- 7	St. Heliers.
a Guernsey (Villa Carey)	68	14th	47	16th	62·6	50·9	56·4	- 1·2	101	0	0	41	59·8	+4·8	55·4	+3·7	3	0·09	- 0·34	8·2	- 0·1	54	0	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·0 hrs. 46 %; Newcastle (Pendower), hrs. %; Ramsgate, 7·6 hrs. 49 %; Rhyl, 9·2 hrs. 59 %; Salcombe, 6·3 hrs. 41 %; Tenby, 7·6 hrs. (+0·5) 49 % (+3 %); Torquay, 5·5 hrs. (−1·8) 36 % (−12 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, May 18th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	47	46	46·9	+0·9	SCOTLAND, W. ..	Lamlash	52	45	48·7	+0·8
	Kirkwall	51	50	50·1	+2·0		Ballantrae	54	49	51·4	+2·1
	Wick	48	47	47·6	+0·7	ENGLAND, N.W. ..	Port Erin	54	49	50·7	+2·4
SCOTLAND, E. ..	Cromarty	52	48	49·4	+1·3		Newquay	54	54	54·0	+1·3
	Pennan Bay	53	48	50·9	+2·8	ENGLAND, S.W. ..	Scilly	55	53	54·5	—
	Aberdeen, Cove Bay	49	47	47·7	+1·1		Plymouth‡	56	54	54·9	+3·6
ENGLAND, N.E. ..	Burnmouth, Berwick	46	46	46·0	+0·9		Salcombe	57	52	53·9	+2·7
	Scarborough	52	45	49·1	+5·2	IRELAND, N.W. ..	Sheephaven	50	50	50·0	-0·9
ENGLAND, E. ..	Shipwash Lightship	56	49	52·5	+2·7		Teelin	56	51	53·7	+0·2
	Margate‡	56	55	55·5	+2·2	IRELAND, S.W. ..	Cleggan	54	51	52·5	+1·1
ENGLAND, S.E. ..	Eastbourne‡	57	55	55·9	+3·1	IRELAND, E.	Seafield	56	50	52·9	-0·6
							.. ..	—	—	—	—

‡ Only one observation each day

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTIETH WEEK—May 12th to May 18th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	62	31	53·7	41·3	47·1	− 0·6	39	− 7	2	− 4	5	+ 1	0·89	+0·27	6·0	+0·4	37	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	65	27	58·1	40·2	48·6	+ 0·5	54	+ 2	5	− 1	3	− 1	0·81	+0·31	7·6	+1·5	47	+ 9
2. ENGLAND, N.E.	68	31	60·0	43·0	51·0	+ 2·1	63	+ 11	0	− 3	2	− 1	0·56	+0·18	6·4	0·0	40	0
3. ENGLAND, EAST ...	73	36	62·3	46·4	53·9	+ 3·0	83	+ 17	0	− 3	4	+ 1	0·34	−0·09	7·0	+0·4	46	+ 2
4. MIDLAND COUNTIES ...	70	35	62·0	45·0	53·0	+ 2·2	77	+ 10	0	− 4	3	0	0·53	+0·05	5·9	−0·2	38	− 1
5. ENGLAND, S.E.	72	39	62·9	47·7	54·9	+ 2·6	90	+ 16	0	− 1	4	+ 1	0·43	+0·02	6·9	+0·1	45	+ 1
Western.																		
6. SCOTLAND, WEST ...	63	30	57·6	41·9	49·3	− 0·6	52	− 7	0	− 3	3	0	0·22	−0·44	9·4	+2·9	59	+18
7. ENGLAND, N.W.	66	30	58·6	44·1	50·9	+ 0·4	62	0	0	− 1	2	− 1	0·20	−0·30	8·1	+1·6	52	+10
8. ENGLAND, S.W.	71	32	59·9	46·8	53·0	+ 1·3	77	+ 8	0	− 1	4	+ 1	0·42	−0·07	5·9	−0·9	38	− 6
9. IRELAND, NORTH ...	65	33	57·0	41·7	48·8	− 1·4	49	− 11	1	0	3	− 1	0·23	−0·31	6·6	+0·3	41	+ 2
10. IRELAND, SOUTH ...	67	33	59·2	43·4	50·8	− 0·9	62	− 7	0	− 1	3	− 1	0·12	−0·42	7·5	+0·8	48	+ 5
11. ENGLISH CHANNEL ...	74	45	61·9	50·5	55·9	+ 2·9	97	+ 20	0	0	3	0	0·18	−0·22	6·7	−1·4	45	− 9

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 11 Weeks, March 3rd to May 18th, 1912.

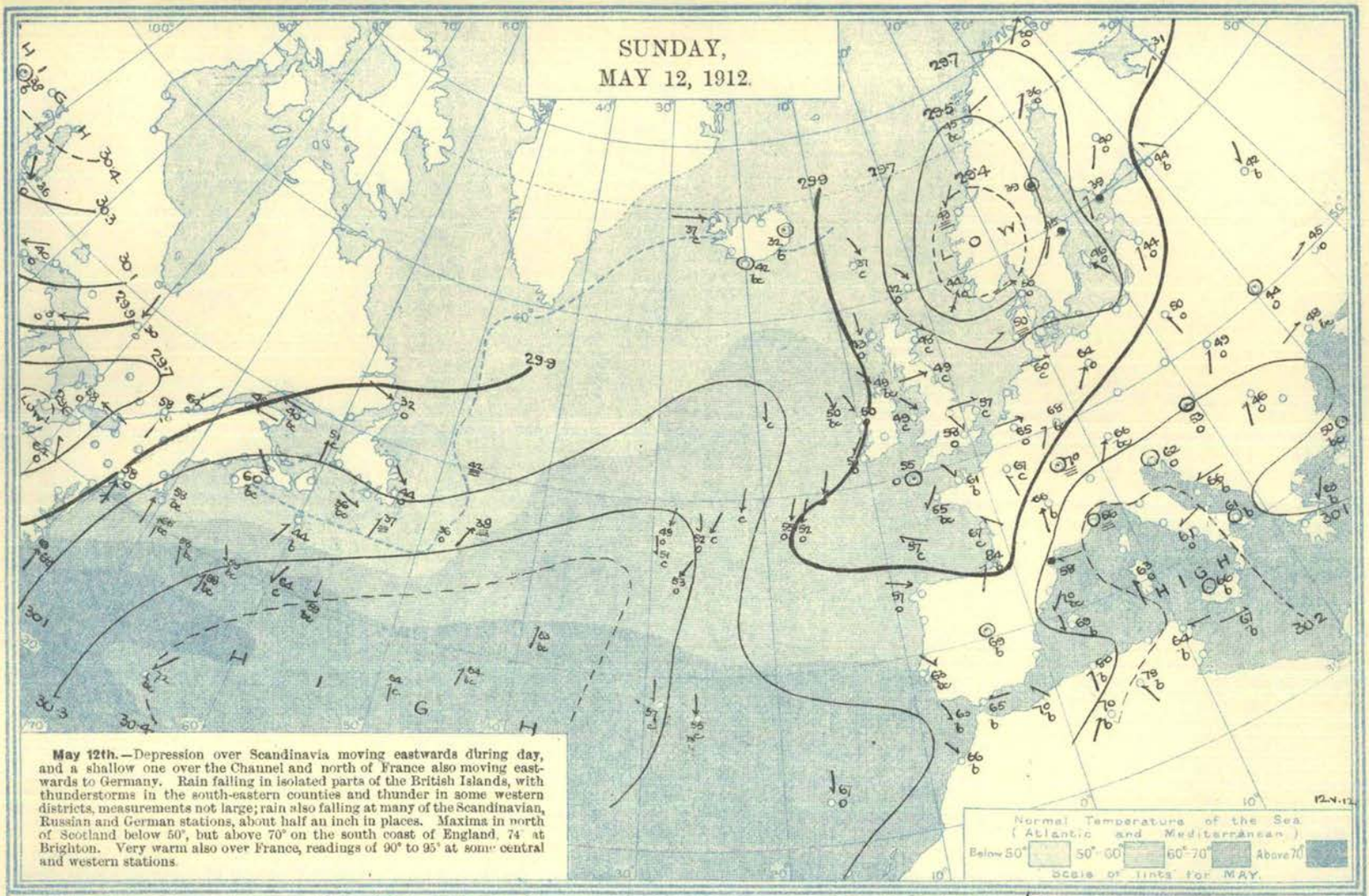
0. SCOTLAND, NORTH ...	71	25	*	*	*	*	326	+ 50	125	− 94	54	+ 4	12·32	+3·57	4·3	0·0	31	0
Eastern.																		
1. SCOTLAND, EAST ...	70	20	*	*	*	*	434	+ 97	166	− 70	41	− 1	4·82	−0·46	5·0	+0·4	37	+ 3
2. ENGLAND, N.E	71	26	*	*	*	*	490	+153	102	− 71	30	− 8	3·15	−1·11	5·1	0·0	38	0
3. ENGLAND, EAST ...	82	26	*	*	*	*	589	+153	67	−114	33	− 3	3·42	−0·63	5·6	+0·4	42	+ 3
4. MIDLAND COUNTIES ...	81	24	*	*	*	*	579	+129	101	− 93	31	− 4	4·42	−0·09	4·8	+0·1	36	+ 1
5. ENGLAND, S.E.	77	23	*	*	*	*	601	+132	48	− 74	30	− 4	4·26	0·00	5·8	+0·6	43	+ 4
Western.																		
6. SCOTLAND, WEST ...	71	24	*	*	*	*	432	+ 72	75	− 85	45	+ 3	7·44	−0·28	4·9	0·0	36	0
7. ENGLAND, N.W.	70	25	*	*	*	*	482	+106	67	− 67	36	− 3	5·30	−0·30	4·9	+0·2	36	+ 1
8. ENGLAND, S.W.	73	24	*	*	*	*	550	+104	30	− 71	39	+ 1	7·03	+0·93	4·6	−0·7	34	− 5
9. IRELAND, NORTH ...	69	30	*	*	*	*	466	+ 76	66	− 61	44	− 2	5·91	−0·43	4·0	−0·6	30	− 4
10 IRELAND, SOUTH ...	70	29	*	*	*	*	574	+105	37	− 57	48	+ 6	5·99	−0·82	4·8	−0·3	36	− 2
11. ENGLISH CHANNEL ...	76	35	*	*	*	*	682	+163	3	− 27	43	+ 3	6·29	−1·27	5·6	−0·7	43	− 5

THE YEAR.—Aggregates, &c., for the Period of 20 Weeks, December 31st, 1911, to May 18th, 1912.

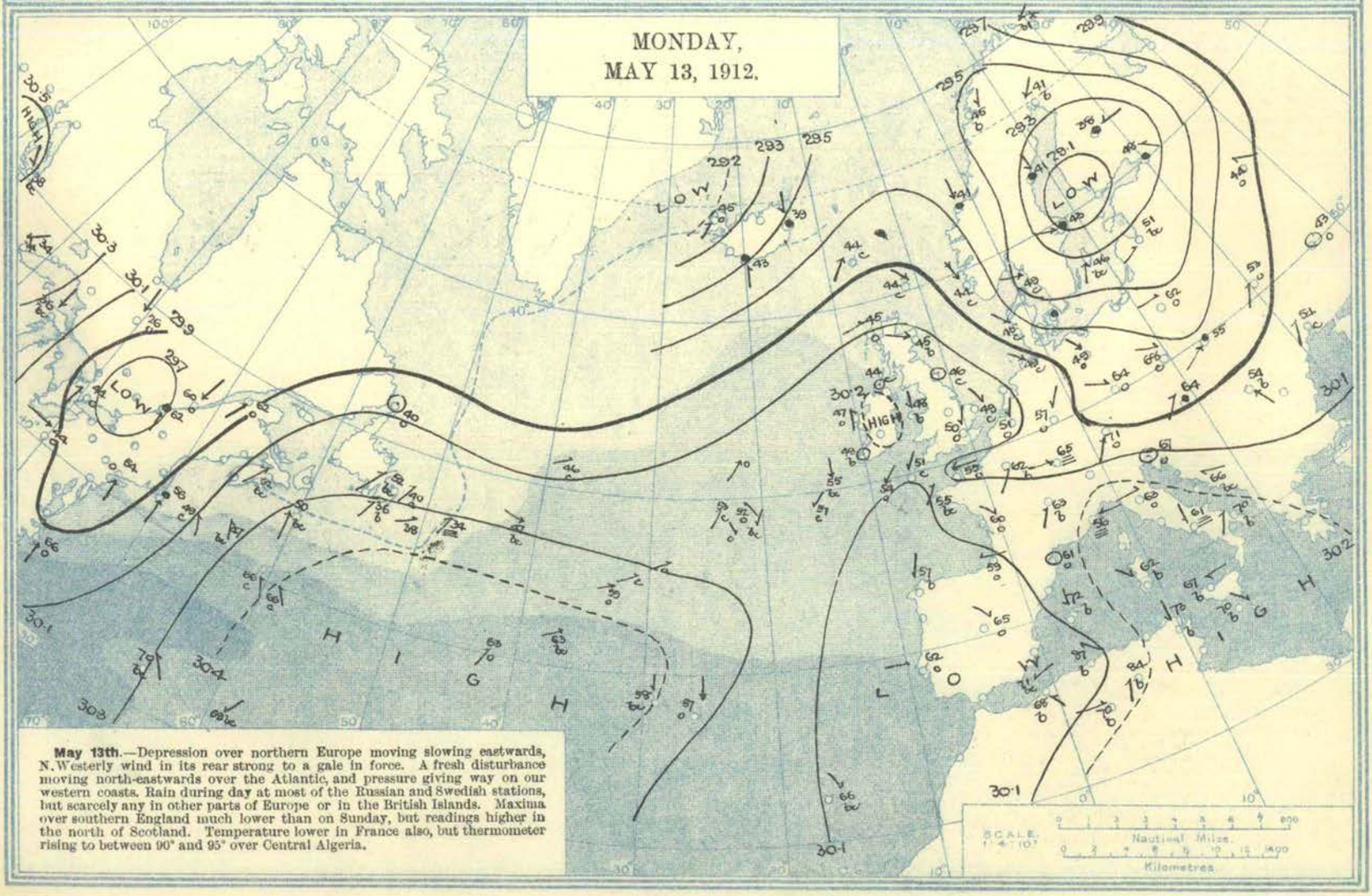
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	400	+ 64	421	−128	98	+ 2	19·89	+0·18	3·0	0·0	27	0
Eastern.																		
1. SCOTLAND, EAST ...	70	−5	*	*	*	*	509	+104	509	−104	84	+ 7	10·21	−0·06	3·4	0·0	31	0
2. ENGLAND, N.E.	78	10	*	*	*	*	591	+174	373	−101	71	0	7·65	0·00	3·4	−0·3	30	− 2
3. ENGLAND, EAST ...	82	14	*	*	*	*	721	+195	274	−246	72	+ 2	7·71	+0·29	3·7	−0·1	33	− 1
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	706	+152	373	−157	69	+ 1	10·14	+1·45	3·2	−0·2	29	− 2
5. ENGLAND, S.E.	77	13	*	*	*	*	756	+169	218	−163	69	+ 3	10·08	+1·37	3·8	0·0	33	0
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	523	+ 74	328	− 94	84	+ 2	16·19	−0·38	3·3	−0·1	29	− 1
7. ENGLAND, N.W.	70	7	*	*	*	*	606	+136	298	− 87	75	0	11·14	−0·13	3·5	0·0	31	0
8. ENGLAND, S.W.	73	9	*	*	*	*	728	+131	189	−111	85	+11	15·21	+2·11	3·3	−0·6	29	− 5
9. IRELAND, NORTH ...	69	15	*	*	*	*	625	+110	237	−107	78	−10	12·60	−0·27	3·0	−0·4	27	− 3
10. IRELAND, SOUTH ...	70	13	*	*	*	*	783	+128	167	− 92	94	+14	14·84	+0·48	3·5	−0·3	31	− 2
11. ENGLISH CHANNEL ...	76	27	*	*	*	*	1,003	+265	44	− 65	82	+ 1	12·62	+1·69	4·1	−0·6	36	− 5

NOTES ON TABLE IV.

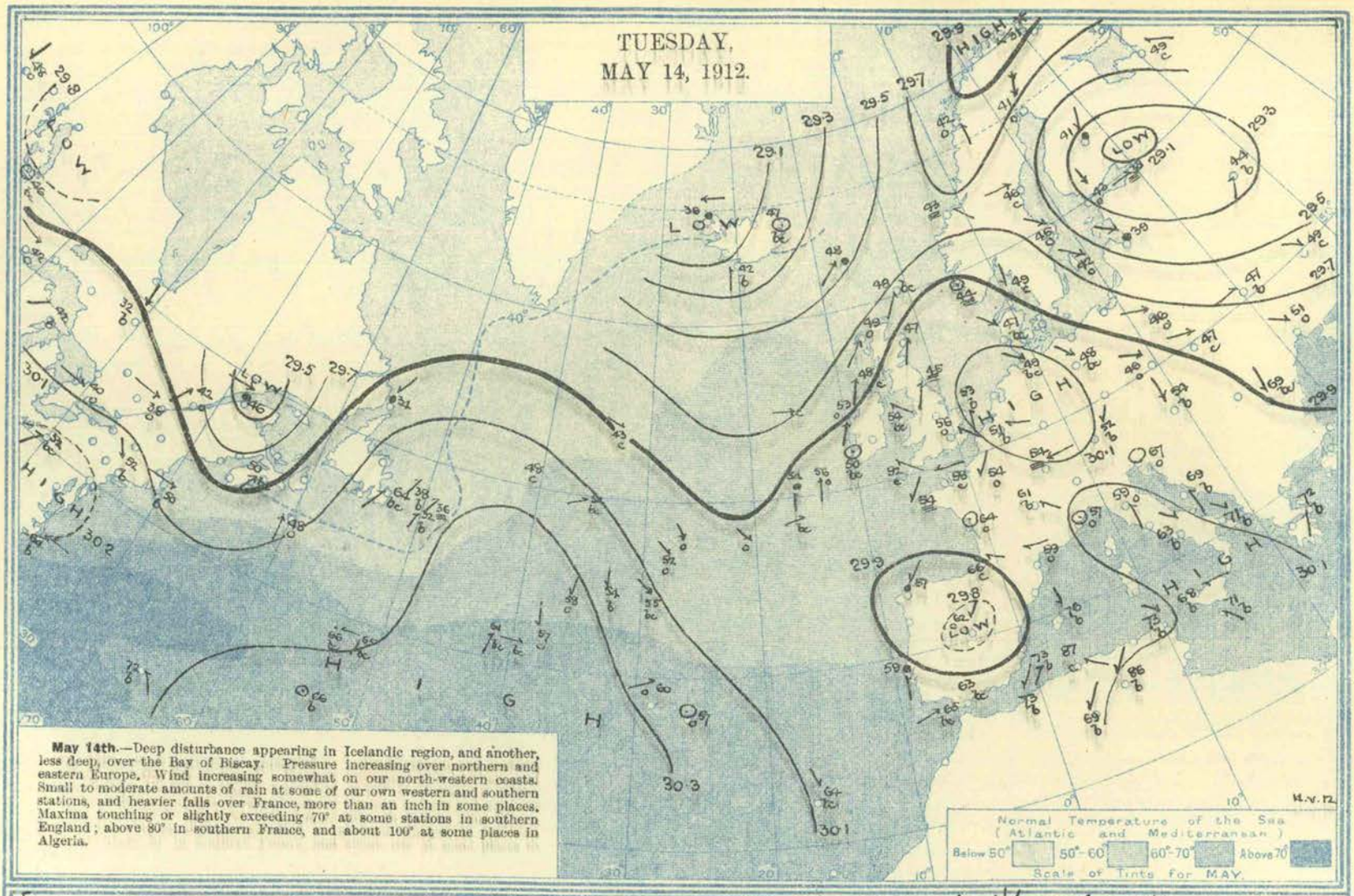
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



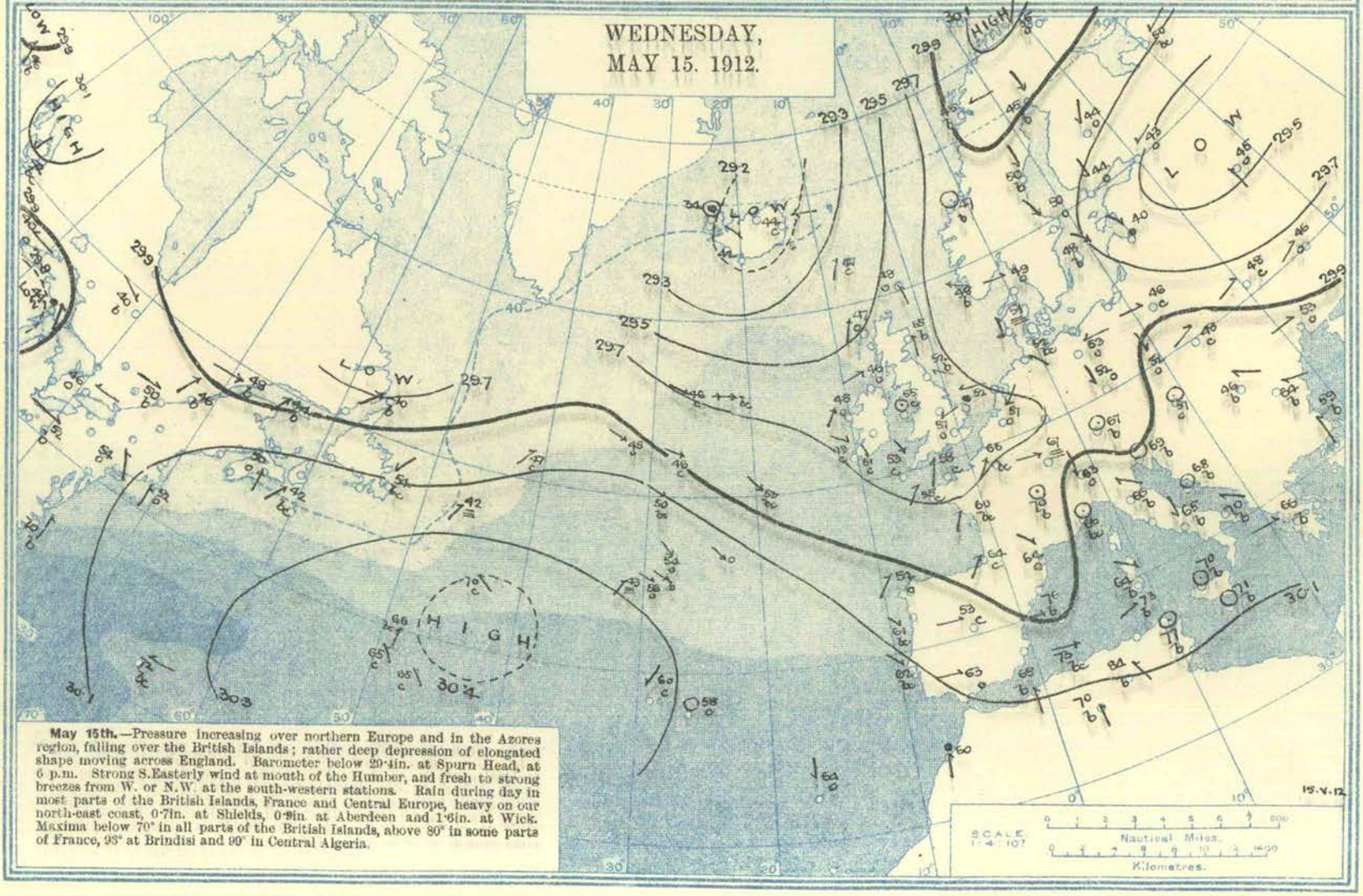
May 12th.—Depression over Scandinavia moving eastwards during day, and a shallow one over the Channel and north of France also moving eastwards to Germany. Rain falling in isolated parts of the British Islands, with thunderstorms in the south-eastern counties and thunder in some western districts, measurements not large; rain also falling at many of the Scandinavian, Russian and German stations, about half an inch in places. Maxima in north of Scotland below 50°, but above 70° on the south coast of England, 74° at Brighton. Very warm also over France, readings of 90° to 95° at some central and western stations.



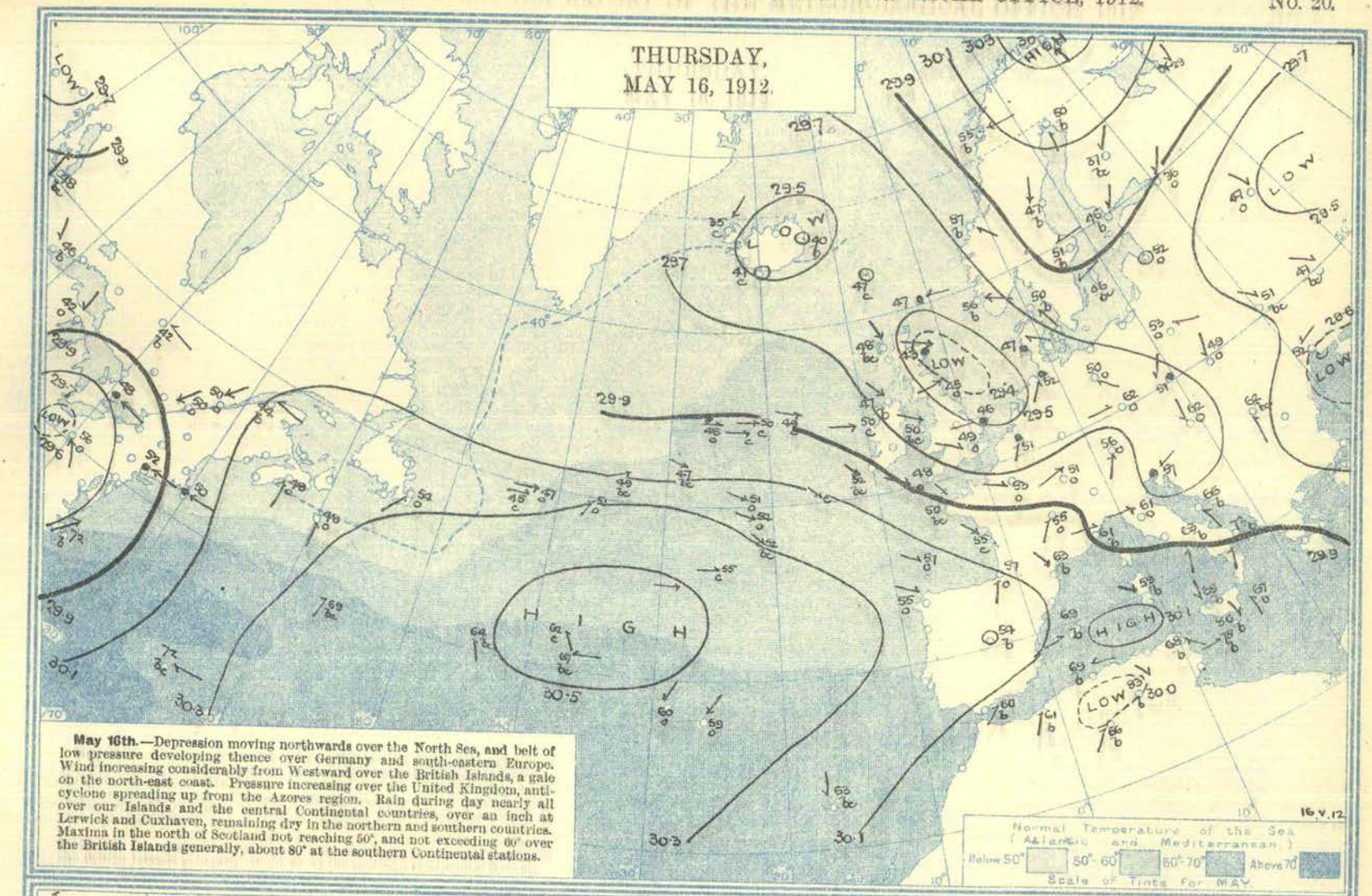
May 13th.—Depression over northern Europe moving slowing eastwards, N. Westerly wind in its rear strong to a gale in force. A fresh disturbance moving north-eastwards over the Atlantic, and pressure giving way on our western coasts. Rain during day at most of the Russian and Swedish stations, but scarcely any in other parts of Europe or in the British Islands. Maxima over southern England much lower than on Sunday, but readings higher in the north of Scotland. Temperature lower in France also, but thermometer rising to between 90° and 95° over Central Algeria.



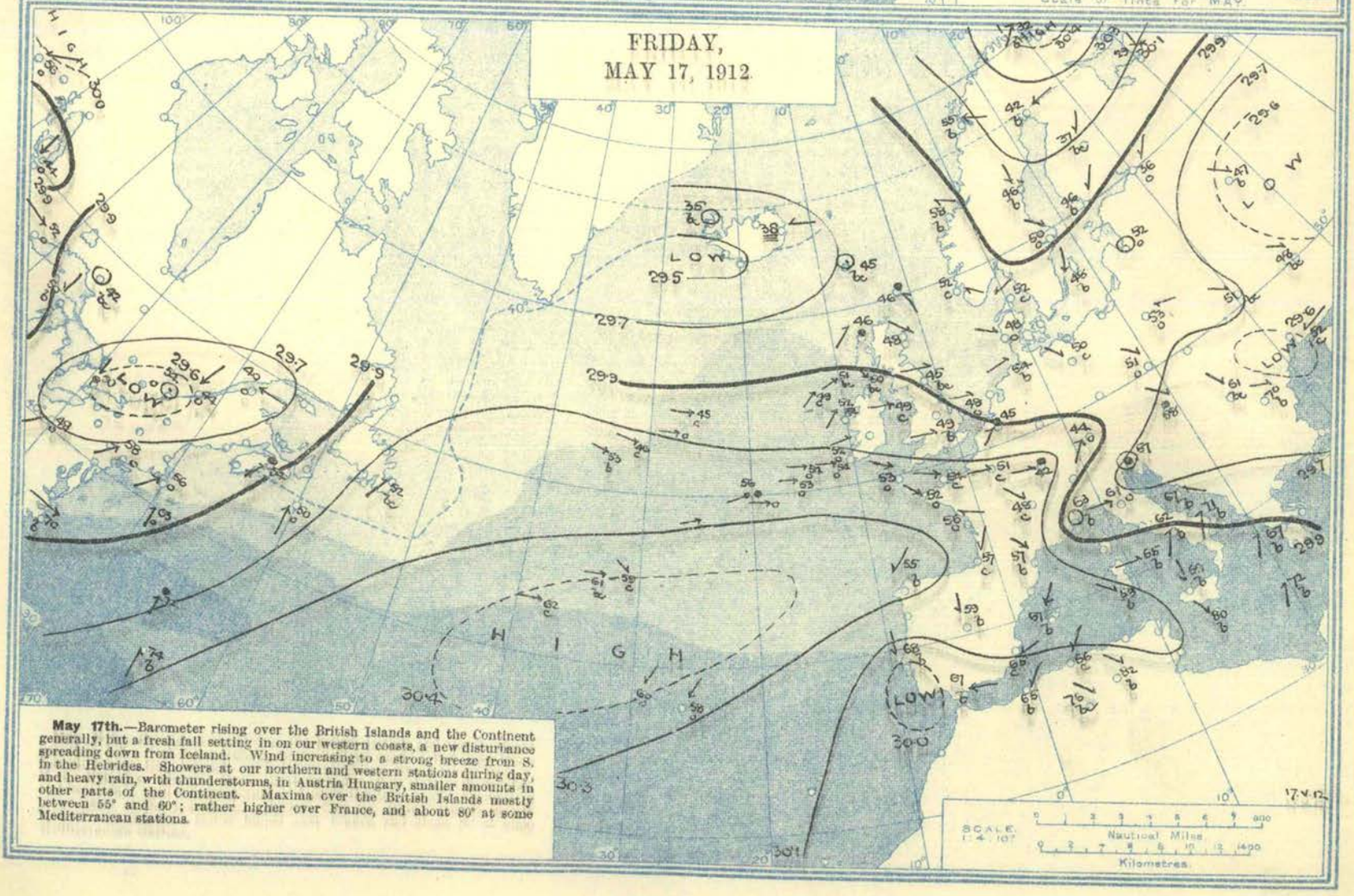
May 14th.—Deep disturbance appearing in Icelandic region, and another, less deep, over the Bay of Biscay. Pressure increasing over northern and eastern Europe. Wind increasing somewhat on our north-western coasts. Small to moderate amounts of rain at some of our own western and southern stations, and heavier falls over France, more than an inch in some places. Maxima touching or slightly exceeding 70° at some stations in southern England; above 80° in southern France, and about 100° at some places in Algeria.



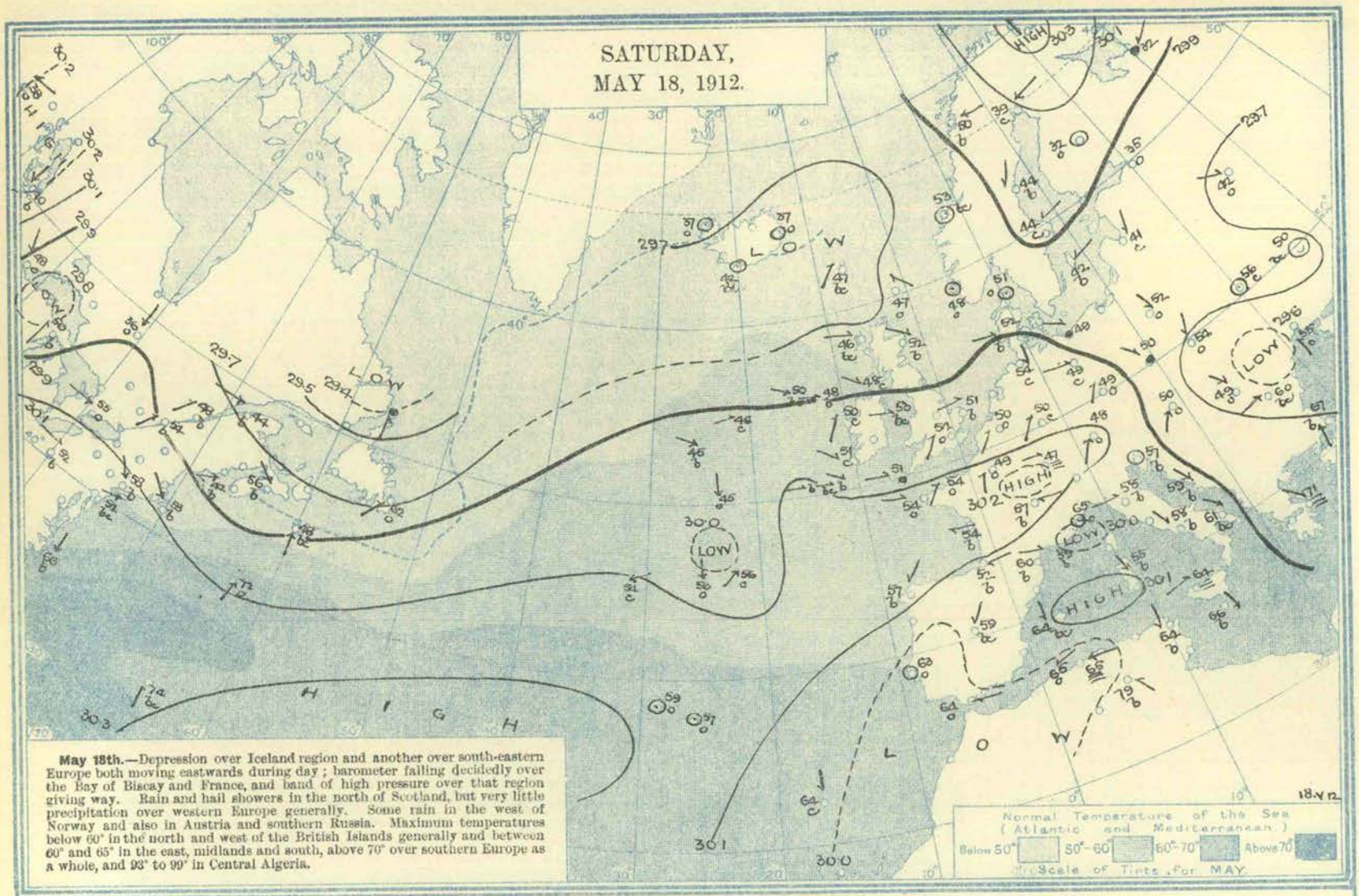
May 15th.—Pressure increasing over northern Europe and in the Azores region, falling over the British Islands; rather deep depression of elongated shape moving across England. Barometer below 29·4in. at Spurn Head, at 6 p.m. Strong S.Easterly wind at mouth of the Humber, and fresh to strong breezes from W. or N.W. at the south-western stations. Rain during day in most parts of the British Islands, France and Central Europe, heavy on our north-east coast, 0·7in. at Shields, 0·9in. at Aberdeen and 1·6in. at Wick. Maxima below 70° in all parts of the British Islands, above 80° in some parts of France, 93° at Brindisi and 99° in Central Algeria.



May 16th.—Depression moving northwards over the North Sea, and belt of low pressure developing thence over Germany and south-eastern Europe. Wind increasing considerably from Westward over the British Islands, a gale on the north-east coast. Pressure increasing over the United Kingdom, anti-cyclone spreading up from the Azores region. Rain during day nearly all over our Islands and the central Continental countries, over an inch at Lerwick and Cuxhaven, remaining dry in the northern and southern countries. Maxima in the north of Scotland not reaching 50°, and not exceeding 60° over the British Islands generally, about 80° at the southern Continental stations.

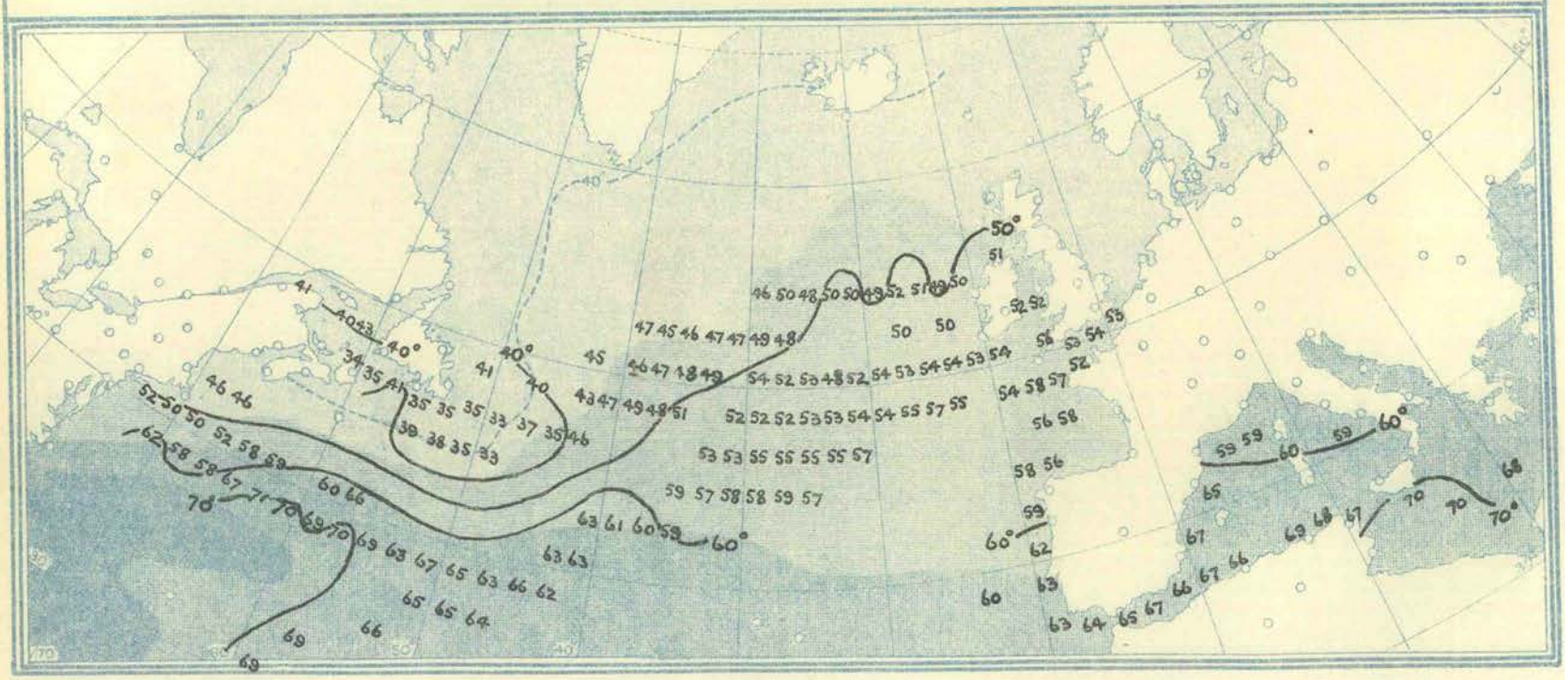


May 17th.—Barometer rising over the British Islands and the Continent generally, but a fresh fall setting in on our western coasts, a new disturbance spreading down from Iceland. Wind increasing to a strong breeze from S. in the Hebrides. Showers at our northern and western stations during day, and heavy rain, with thunderstorms, in Austria Hungary, smaller amounts in other parts of the Continent. Maxima over the British Islands mostly between 55° and 60°; rather higher over France, and about 80° at some Mediterranean stations.



May 18th.—Depression over Iceland region and another over south-eastern Europe both moving eastwards during day; barometer falling decidedly over the Bay of Biscay and France, and band of high pressure over that region giving way. Rain and hail showers in the north of Scotland, but very little precipitation over western Europe generally. Some rain in the west of Norway and also in Austria and southern Russia. Maximum temperatures below 60° in the north and west of the British Islands generally and between 60° and 65° in the east, midlands and south, above 70° over southern Europe as a whole, and 93° to 99° in Central Algeria.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 18th. MAY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ↯ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 81

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 21. TWENTY-FIRST WEEK, SUNDAY, MAY 19TH, TO SATURDAY, MAY 25TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s 0d

I.—General Remarks.

Weather. The conditions were generally cloudy and unsettled. Rain was experienced on several days in the most northern and western districts, and occasionally in the south and south-east. At many stations in the latter regions, however, the fall was very slight, and in some places no measurable amount was recorded. Thunderstorms occurred about the middle of the week at various places in England, mostly in the midland and eastern counties.

Temperature was from 2° to 3° below the average in most districts, but slightly above it in England E. and the English Channel. The highest of the maxima were registered, as a rule, either early or quite late in the week, and ranged from 71° in the English Channel, 70° in the midland counties and 69° in England E. and Ireland S., to 64° in Scotland W. and England N.W. The lowest of the minima, which were generally recorded late in the period, varied from 28° in Scotland E. (at Balmoral on the 22nd), 29° in Ireland N. (at Markree Castle on the 25th) and 31° in South Wales (at Llangammarch Wells on the 24th and 25th), and also in Scotland N. to 36° in England E., and to 46° in the English Channel. The lowest grass readings reported were 22° at West Linton, 24° at Crathes and Newton Rigg, and 25° at Balmoral. The temperature of the soil, 1 foot below the surface, was below the average over the greater part of the Kingdom, but at 4 feet it was again above it nearly everywhere.

Mean Temperature of the Sea. At most stations the water was warm for the time of the year, and also warmer than during the corresponding week of last year. The means for the week ranged from about 56·5° at Margate and Eastbourne, and 56° at Scilly, to 47° at Lerwick and Burnmouth.

Rainfall varied greatly in amount in different parts of the Kingdom. In England N.E., the Midland Counties, England N.W. and S.W., and Ireland S. it was in excess of the average, but in the other districts there was a deficit. About an inch fell at Cahir on the 19th and at Rauceby on the 22nd; on the latter date more than an inch was recorded at Huddersfield, and as much as 1·3 in. at Harrogate and 1·5 in. at Scarborough.

Bright Sunshine was below the normal except in the English Channel, and Scotland N. The mean daily duration ranged from 9·6 hours (62 per cent. of the possible) in the English Channel, and 8·1 hours (48 per cent.) in Scotland N. to 4·9 hours (about 30 per cent. of the possible) in England N.E. and N.W., and to 4·2 hours (only 26 per cent.) in the Midland Counties.

Barometer and Wind. At the beginning of the week a depression of little depth lay off the south-west coast of Ireland, and during the subsequent days it grew somewhat deeper, extended over these Islands, and after considerable modification in form, travelled slowly eastward. On Tuesday two distinct baric minima were shown. By Friday the disturbance had passed away to the eastward and an anticyclonic system from the Atlantic spread rapidly over the United Kingdom. During the passage eastward of the depression the wind was mainly Easterly or North-Easterly in all the more northern districts and Westerly in the south, but its direction varied a good deal locally. The Northerly current in its rear blew a fresh breeze in places on Friday.

THE WEEK.

For explanation of the terms "Unusual" &c., *see* p. 83.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Moderate	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate
	Rainfall ...	Light	Moderate	Very heavy	Moderate	Very heavy	Moderate	Light	Heavy	Moderate	Light	Heavy	Moderate
	Sunshine ...	Abundant	Moderate	Scanty	Scanty	Scanty	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 12 weeks from March 3rd, 1912.	Warmth ...	6 * 2	7 * 1	8 * 1	8 * 0	8 * 1	7 * 0	6 * 2	7 * 1	7 * 1	7 * 2	7 * 1	8 * 0
	Rainfall ...	5 * 4	4 * 3	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	3 * 4
	Sunshine ...	4 * 2	4 * 2	2 * 6	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	2 * 4	2 * 6	2 * 4	3 * 5

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(24593—24.) Wt. 173—814. 450. 5/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	*53*	*19th*	*49*	*21, 22*	*50·0*	*40·6*	*45·0*	—	*27*	*4*			48·7				*7*	*0·36*	—	*9·0*	—	*51*	—	*Baltasound.*
a, Islands .. *a* Lerwick ..	52	19th	38	21st	49·7	40·7	44·9	- 1·0	26	4							6	0·21	—	11·2	+ 5·5	65	+32	Deerness.
a Stornoway ..	58	25th	38	20th	53·3	40·3	46·4	- 1·6	38	5							1	0·14	- 0·42	9·9	+ 3·6	59	+21	Stornoway.
a Castlebay, Barra Isd.	*55*	*20th*	*43*	*25th*	*53·4*	*45·6*	*49·3*	*- 2·2*	*51*	*0*							*1*	*0·18*	—	*9·8*	—	*58*	—	*Castlebay.*
a Wick ..	52	24th	36	22nd	49·9	39·6	44·4	- 3·6	27	7							5	0·24	- 0·20					
b, Main- *p* Strathpeffer ..	58	25th	31	22nd	53·4	39·1	45·8	- 3·3	39	8							3	0·10	- 0·34	5·6	0·0	34	0	Strathpeffer.
land. *p* Glencarron ..	56	23rd	35	22nd	53·0	38·4	45·3	- 2·9	38	10							1	0·08	- 0·92					
p Fort Augustus..	61	25th	32	25th	54·1	39·4	46·3	- 2·9	41	7							3	0·11	- 0·38	5·5	+ 1·1	33	+ 6	Fort Augustus.
p Fort William ..	66	25th	35	23rd	58·4	40·7	49·0	- 1·5	54	4							0	0·00	- 0·83					
1. SCOTLAND, E.																							
p Gordon Castle.. S	57	19th	32	22nd	54·6	38·3	46·0	- 3·7	44	10	4	24	50·1	-1·4	48·4	+1·0	—	—	—	5·4	—	32	—	Crathes S.
a Nairn	58	25th	32	25th	53·7	38·6	45·7	- 4·3	40	10							4	0·18	- 0·28	*6·4*	—	*38*	—	*Gordon Castle.*
a Aberdeen ..	57	25th	34	22nd	54·9	40·4	47·2	- 1·9	43	4					48·1	+1·4	6	0·14	- 0·24	5·8	—	35	—	Nairn.
a Balmoral ..	64	25th	28	22nd	57·4	33·3	44·6	- 2·6	55	24	5	25					3	0·13	- 0·33	6·4	+ 0·3	38	+ 2	Aberdeen.
p Crieff	65	25th	37	25th	56·7	40·0	47·9	- 3·3	50	6							4	0·18	- 0·35					Balmoral.
a Leith	63	25th	36	25th	55·9	43·0	49·1	- 1·7	50	0							3	0·06	- 0·52	4·6	—	28	—	Balruddery.
p West Linton .. S	60	25th	29	25th	53·3	35·1	43·7	- 4·2	41	19	5	22					1	0·19	- 0·21					
p Marchmont ..	61	25th	36	25th	53·4	39·7	46·1	- 2·7	38	6	1	30	49·4	-2·3			4	0·37	—					*West Linton.*
2. ENGLAND, N.E.																	3	0·69	+ 0·15	5·0	- 0·9	30	- 5	Marchmont.
a Alnwick Castle ..	60	19th	33	25th	54·7	40·9	47·4	- 1·9	42	3	1	28	49·6	-2·8	49·1	+0·7	3	1·20	+ 0·72	4·8	—	29	—	Cockle Park.
a Shields	57	25th	41	19th	52·0	42·6	47·0	- 2·5	35	0							5	1·62	+ 1·22					*Newcastle.*
p Durham	60	25th	35	25th	53·0	40·1	46·2	- 3·9	37	5	1	29					5	1·10	+ 0·68	3·5	- 2·1	22	-13	Durham.
a, North .. *p* Rounton ..	63	19th	35	25th	53·9	40·7	46·9	- 2·4	40	4	2	30	51·6				4	1·36	+ 0·92					Rounton.
a West Witton ..	*62*	*25th*	*38*	*19, 25*	*54·4*	*41·7*	*47·7*	—	*41*	*1*	0	33	51·0		48·1		*6*	*1·49*	—					*West Witton.*
p Scarborough ..	59	19, 21	42	25th	53·6	44·9	49·0	- 1·5	49	0							4	1·89	+ 1·46	4·9	—	30	—	Scarborough.
p York	64	25th	41	24th	58·0	43·9	50·5	- 1·8	60	0			52·5	+0·1	50·5	+1·8	4	1·62	+ 1·17	4·6	- 1·2	29	- 7	York.
a Spurn Head ..	60	21st	43	25th	54·3	45·4	49·6	- 1·3	53	0	1	29	52·1	-1·1	49·3	+1·2	4	2·07	+ 1·71	*4·0*	—	*25*	—	*Hull.*
b, South .. *a* Lincoln ..	64	20, 21	41	24th	59·3	45·0	51·7	- 1·1	68	0			52·6	-1·6	51·1	+1·7	3	1·52	+ 0·90					Lincoln.
a Fulbeck	66	19th	41	24, 25	60·4	44·3	51·9	0·0	69	0	0	34	55·3	-2·6	52·1	+1·7	3	1·41	+ 0·97	5·3	—	33	—	Rauceby.
3. ENGLAND, E.											0	38	55·8	-0·4	52·7	+1·2	—	—	—	6·1	—	38	—	Skegness.
p Cromer	66	20th	43	25th	59·4	46·4	52·5	+ 1·4	74	0							—	—	—	*6·4*	—	*40*	—	*Lowestoft.*
n Hillington																	4	0·44	—	5·6	—	35	—	Cromer.
a, North .. *a* Yarmouth ..	62	23rd	43	25th	58·1	48·6	53·1	+ 1·9	78	0			56·9	-1·6	55·0	+1·6	—	—	—					Hillington.
a Norwich ..	69	19th	37	25th	62·3	46·3	53·8	+ 2·1	83	0	1	30	56·4				2	0·14	- 0·25	5·7	—	36	—	Yarmouth.
p Geldeston ..	67	19th	37	25th	62·0	45·4	53·2	+ 1·3	78	0							4	0·17	—	*5·2*	—	*33*	—	*Norwich.*
p Cambridge ..	69	20th	36	25th	62·1	44·6	53·8	- 0·3	76	0	0	31	56·7	+1·4	54·2	+2·2	2	0·14	- 0·26	5·6	- 1·5	35	-10	Geldeston.
a Felixstowe ..	*64*	*20, 24, 25*	*37*	*25th*	*62·1*	*47·7*	*54·5*	+ *2·3*	*88*	*0*							3	0·63	+ 0·20	6·0	- 0·6	38	- 4	Cambridge.
b, South .. *a* Clacton-on-Sea ..	65	20th	39	25th	60·9	48·3	54·2	+ 2·5	85	0	0	34	55·1	-0·4	53·7	+1·1	*2*	*0·07*	—	*6·9*	—	*43*	—	*Felixstowe.*
a Rothamsted ..	67	19, 20	37	25th	61·0	44·3	52·2	+ 0·1	71	0							0	0·00	—	6·9	—	43	—	Clacton.
a Shoeburyness ..	*66*	*20, 22*	*38*	*25th*	*62·4*	*47·4*	*54·5*	+ *0·3*	*88*	*0*	0	31	58·4	+0·6			2	0·32	- 0·13	5·0	- 1·5	31	- 9	Rothamsted.
p Tottenham ..	68	20th	39	25th	63·0	47·1	54·6	+ 1·2	88	0	0	37			55·6	+3·5	*0*	*0·00*	—	*6·8*	—	*43*	—	*Southend.*
4. MIDLAND COUNTIES.																	0	0·00	—	5·1	—	32	—	Tottenham.
a Harrogate ..	60	19, 25	40	23rd	53·9	42·3	47·8	- 2·5	41	0	0	33	51·5	-2·1	48·8	+1·8	—	—	—	*3·2*	—	*20*	—	*Huddersfield.*
a Bawtry	65	19th	38	19th	58·4	43·1	50·3	- 2·2	58	0	0	36	50·4	+0·3	50·0	+1·7	5	1·89	+ 1·40	3·7	—	23	—	Harrogate.
p Buxton	*59*	*19th*	*37*	*24th*	*54·1*	*40·0*	*46·6*	*- 2·0*	*41*	*6*	1	29	52·5		51·1		4	1·50	+ 1·07	4·1	- 1·5	26	- 9	Worksop.
a East .. *a* Nottingham ..	66	21st	41	21st	59·9	44·6	51·8	- 0·6	69	0	1	27	51·1	-2·1	48·3	+1·4	*3*	*1·15*	+ *0·43*	*3·1*	—	*19*	—	*Buxton.*
p Birmingham, Edgbsn.	63	19th	40	24th	57·3	44·7	50·6	- 1·5	60	0	0	35	53·8	-0·4	51·1	+1·5	4	1·65	+ 1·23	4·1	—	26	—	Nottingham.
a Raunds	70	19th	39	25th	62·4	45·1	53·2	+ 0·8	78	0	1	29	49·8	-0·4	49·0	+2·2	5	1·36	+ 0·88	3·3	—	21	—	Birmingham.
a Oxford	66	19th	45	19, 24, 25	60·3	47·4	53·5	+ 0·2	81	0	2	29	54·6		51·0		4	0·82	—					Raunds.
a Cheadle	63	21, 23	43	23, 24	61·4	45·4	52·9	+ 2·1	76	0	0	36	51·2	-0·6	49·0	+1·8	2	0·98	+ 0·58	4·8	- 1·6	30	-10	Oxford.
p Shrewsbury ..	64	21, 25	35	25th	59·9	41·9	50·4	- 2·6	59	0	1	28					—	—	—	3·0		19		Sheffield.
b, West .. *a* Hereford ..	63	19, 20, 25	36	25th	59·7	43·0	50·9	- 2·2	62	0	0	33					3	0·70	+ 0·20					Cheadle.
a Cirencester ..	63	19th	39	19th	59·9	43·1	51·0	- 0·7	63	0	1	30					4	1·39	—					Shrewsbury.
a Bath	65	19th	38	25th	61·3	44·3	52·3	- 1·1	72	0	0	37	54·2		51·8		3	1·34	+ 0·86					Hereford.
5. ENGLAND, S.E.													56·4	+0·3	54·4	+1·7	4	1·13	+ 0·65	5·4	- 1·3	34	- 8	Cirencester.
p Kew	67	20th	41	25th	62·1	47·1	54·2	+ 0·4	85	0	0	36	59·2	+3·7	54·9	+2·8	3	0·82	+ 0·37	4·9	—	31	—	Bath.
a Marlborough ..	63	20th	33	25th	59·3	42·0	50·1	- 0·3	57	0	1	27	56·0	+0·8	53·0	+2·2	—	—	—					Canterbury.
a Margate	68	19th	45	22nd	63·0	48·0	55·1	+ 2·4	92	0	1	30					1	0·03	- 0·36	5·0	- 1·6	32	-10	Kew.
a Wisley, Surrey ..	68	20th	34	25th	61·0	44·4	52·2	- 1·7	71	0	1	27	56·1	+0·2	54·0	+2·1	3	0·63	+ 0·19	4·0	- 2·1	25	-14	Marlborough.
a Swarraton ..	65	19, 20	36	25th	60·4	44·0	51·7	- 0·2	68	0	0	34	58·9	+1·4	54·3	+2·1	3	0·33	- 0·02	7·4	+ 1·0	47	+ 6	Margate.
a Tunbridge Wells ..	66	19, 21	35	25th	62·3	43·9	52·6	+ 0·1	74	0	1	29	57·0	-0·7			2	0·21	—	5·2	—	33	—	Wisley
a Dungeness ..	61	21, 22	38	25th	59·6	48·7	53·8	+ 1·1	83	0							3	0·24	- 0·19	7·3	+ 0·5	47	+ 4	Tunbridge Wells.
p Hastings.. ..	62	21st	41	25th	59·3	48·4	53·5	+ 0·3	81	0	0	37	58·6		54·4		1	0·06	- 0·22	8·9	—	57	—	Littlestone.
p Southampton ..	65	19th	44	19, 25	61·6	48·0	54·4	- 0·6	87	0	0	37					4	0·08	- 0·28	*8·5*	+ *0·8*	*54*	+ *6*	*Hastings.*
a Ventnor	62	19, 20	43	25th	60·4	49·0	54·4	+ 0·5	87	0	0	37					1	0·46	+ 0·02	6·1	- 1·1	39	- 7	Southampton.
											0	36	58·4	0·0	55·3	+1·7	1	0·15	- 0·24	6·9	- 0·4	44	- 3	Ventnor.
													57·5		54·2		—	—	—	*6·8*	—	*43*	—	*Portsmouth.*
													56·2		55·0		—	—	—	8·9	+ 1·5	57	+10	Eastbourne.
LONDON.											0	35			55·6		—	—	—	*7·3*	—	*47*	—	*Bournemouth.*
a Westminster ..	*66*	*19, 20*	*43*	*25th*	*61·7*	*48·4*	*54·7*	+ *0·6*	*89*	*0*	0	37					—	—	—	*7·8*	+ *0·6*	*50*	+ *4*	*Brighton.*
a Greenwich ..	*72*	*20th*	*39*	*25th*	*65·1*	*45·4*	*54·7*	+ *0·4*	*89*	*0*	1	28					*2*	*0·04*	- *0·36*	*4·9*	- *0·6*	*31*	- *4*	*Westminster.*
a Hampstead ..	*67*	*20th*	*40*	*25th*	*60·9*	*46·4*	*53·2*	—	*78*	*0*	0	32					*3*	*0·19*	- *0·21*	*6·0*	- *0·1*	*38*	- *1*	*Greenwich.*
a Camden Square ..	*71*	*19, 20*	*39*	*25th*	*65·7*	*46·9*	*55·7*	—	*96*	*0*	0	33					*3*	*0·06*	—	*5·2*	—	*33*	—	*Hampstead.*
6. *a*, SCOTLAND, W.																	*1*	*0·02*	—	*4·3*	—	*27*	—	*Camden Square.*
a Poltalloch ..	59	25th	36	23rd	56·7	40·9	48·3	- 2·9	49	3							1	0·03	- 0·60					
p Glasgow	63	25th	40	22, 25	57·3	42·4	49·4	- 1·6	52	0	2	29					2	0·10	- 0·48	5·7	+ 0·3	35	+ 2	Glasgow.
p Rothesay ..	64	25th	37	19, 20	57·6	40·9	48·8	- 2·3	52	3					49·9	+1·0	2	0·24	- 0·41					
a Kilmarnock ..	63	25th	33	23rd	58·1	39·9	48·5	- 2·7	54	6							1	0·01	—	*5·8*	—	*35*	—	*Kilmarnock.*
a Colmonell ..	60	19, 24	33	23rd	58·7	38·6	48·1	- 3·3	57	10	1	30					2	0·29	- 0·28					
p Dumfries ..	61	25th	40	19, 23, 25	56·3	42·3	48·9	- 3·1	48	0	1	30	52·4		51·0		3	0·50	- 0·07	*3·5*	—	*21*	—	*Dumfries.*
p Cally, Gatehouse	64	24th	40	23, 25	59·3	42·4	50·3	- 0·9	58	0							2	0·77	+ 0·07					
b I. OF MAN.																								
p Douglas	60	25th	42	24th	55·6	44·3	49·6	- 1·2	53	0	0	36					3	0·90	+ 0·33	5·6	- 1·7	35	-11	Douglas.
7. *a*, ENGLAND, N.W.											2	28	51·2	-2·1	48·9	+1·5	—	—	—	*2·4*	—	*15*	—	*Burnley.*
p Aspatria	61	25th	35	24th	57·0	42·1	49·1	- 1·4	50	0	1	30					—	—	—	4·6		29		Hoylake.
p Newton Rigg ..	62	25th	32	24th	57·0	41·0	48·5	- 1·2	50	3	1	26	52·1		49·2		3	0·38	- 0·18	5·4	—	33	—	Aspatria.
p Stonyhurst ..	61	19th	40	24th	56·3	43·6	49·6	- 1·8	53	0	1	24	51·6	-1·0	49·0	+1·1	3	0·62	+ 0·08	3·7	- 2·8	23	-17	Newton Rigg.
p Blackpool	60	21st	38	24th	56·1	42·6	49·0	- 2·7	49	0	1	28					4	0·74	+ 0·11	3·3	- 3·1	21	-19	Stonyhurst.
p Manchester, Prestwich																	3	0·93	+ 0·44	5·1	- 1·5	32	- 9	Blackpool.
a Liverpool (Bidston) ..	62	19th	42	23rd	55·4	45·7	50·3	- 1·8	58	0							—	—	—					*Prestwich.*
a Hawarden Bridge ..	63	19th	39	24th	56·7	43·0	49·4	- 3·8	52	0	1	28	51·1	-2·9	52·8	-0·1	3	0·82	+ 0·37	*5·0*	—	*31*	—	*Liverpool.*
b, NORTH WALES.											0	38	52·4	-0·8	52·1	+2·9	3	1·06	+ 0·65	*5·8*	- *1·2*	*36*	- *7*	*Southport.*
p Llandudno	63	19, 25	44	20, 23, 25	58·1	46·7	52·1	- 0·2	71	0							—	—	—	*1·6*	—	*10*	—	*Manchester (City)*
a Holyhead	59	21st	38	21st	55·4	45·0	49·9	- 1·5	55	0							4	0·73	+ 0·30	5·2	- 1·6	33	-10	Llandudno.
p Bettws-y-Coed ..	64	21st	37	24th	58·9	42·9	50·4	- 1·7	59	0	0	35	52·1	-0·9	50·3	+1·7	3	0·64	+ 0·21	6·2	—	39	—	Aberdovey.
																	4	0·87	—	5·3	—	33	—	Bettws-y-Coed.

For notes see opposite page.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				6·8	—	43	—	Aberystwyth.
a Llangammarch Wells	61	25th	31	24, 25	56·7	39·4	47·5	- 3·3	53	7	2	30	51·5	-1·2	49·7	+1·2	4	0·34	—	3·4	—	21	—	Llangammarch
a Pembroke	60	24th	46	24th	56·4	48·4	52·2	+ 0·7	71	0	*	*	*	*	*	*	2	0·14	- 0·27	5·6	- 1·7	35	- 11	Pembroke.[Wells
p Cardiff	61	19, 25	43	19, 21, 24	58·7	45·3	51·6	- 2·0	67	0	0	32	56·5	+2·3	53·1	+2·2	3	0·65	+ 0·10	*5·5*	—	*35*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	64	19th	43	24, 25	60·4	46·7	53·1	- 0·9	78	0	0	46	*	*	*	*	5	1·19	+ 0·69	*5·6*	—	*36*	—	*Clifton.*
a Shaftesbury	62	20th	41	24th	58·4	44·9	51·3	0·0	65	0	*	*	55·1	*	*	*	4	0·73	+ 0·25	*	*	*	*	Shaftesbury.
a Arlington	61	25th	37	23rd	57·7	42·7	49·8	- 1·4	55	0	*	*	55·9	*	*	*	2	0·38	- 0·25	7·3	0·0	47	0	Newquay.
a Cullompton	65	19th	39	19th	61·4	45·4	52·9	- 0·2	76	0	0	35	56·7	*	*	*	4	1·00	+ 0·53	3·9	- 2·8	25	-18	Cullompton.
a Portland	60	24th	47	19th	57·6	49·4	53·3	+ 0·5	79	0	*	*	*	*	*	*	2	0·47	—	*6·3*	—	*40*	—	*Weymouth.*
p Plymouth	62	24th	43	19th	59·0	47·4	52·9	- 1·1	78	0	0	38	58·1	+1·5	*	*	3	0·45	- 0·01	4·8	- 2·5	31	-16	Plymouth.
p Falmouth	60	21, 22	46	25th	58·6	48·3	53·1	+ 0·1	78	0	*	*	*	*	*	*	3	0·54	+ 0·05	8·7	+ 0·9	53	+ 6	Falmouth.
9. IRELAND. N.																								
a Malin Head	55	23, 25	42	19th	53·3	44·9	48·9	- 1·3	48	0	*	*	*	*	*	*	1	0·05	- 0·42	*	*	*	*	* *
a, West .. *a* Blacksod Point	59	25th	39	24th	57·3	46·4	51·5	- 0·2	67	0	*	*	*	*	*	*	2	0·25	- 0·35	*	*	*	*	* *
p Markree Castle ..	62	25th	29	25th	59·0	38·6	48·2	- 2·6	58	10	2	26	54·7	*	50·9	*	2	0·16	- 0·44	5·5	- 0·6	34	- 4	Markree Castle.
a Birr Castle	65	25th	35	23, 25	59·3	41·4	49·8	- 2·2	67	2	*	*	*	*	*	*	3	0·43	- 0·07	*5·8*	*- 2·3*	*24*	*- 14*	*Birr Castle.*
p Armagh	61	25th	35	25th	57·1	41·0	48·6	- 2·5	50	3	2	27	53·1	-1·7	51·0	+0·4	2	0·25	- 0·33	5·8	- 0·2	36	- 1	Armagh.
b, East .. *a* Donaghadee ..	59	19th	41	24th	54·6	44·6	49·3	- 1·7	51	0	*	*	*	*	*	*	1	0·46	- 0·06	*	*	*	*	* *
											2	28	53·7	-0·4	52·4	+1·3	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											2	26	*	*	*	*	—	—	—	4·4	- 2·5	28	-15	Phœnix Park.
p Dublin, City	59	19, 25	41	25th	56·0	46·4	50·9	- 2·6	62	0	0	37	*	*	*	*	5	0·58	+ 0·11	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny ..	65	25th	36	25th	58·6	41·7	49·6	- 2·4	54	1	*	*	*	*	*	*	4	0·72	+ 0·22	*	*	*	*	* *
a Waterford	64	25th	38	24, 25	58·9	42·3	50·1	- 2·6	57	0	*	*	*	*	*	*	3	0·85	+ 0·31	*	*	*	*	* *
a Birr Castle	65	25th	35	23, 25	59·3	41·4	49·8	- 2·2	57	2	*	*	*	*	*	*	3	0·43	- 0·07	3·8	- 2·2	24	-14	Birr Castle.
a Foynes	64	25th	40	24th	59·7	44·0	51·4	- 1·7	66	0	*	*	*	*	*	*	3	0·42	- 0·08	*	*	*	*	* *
a Cahir	65	25th	35	25th	59·7	42·3	50·5	- 2·0	60	0	*	*	*	*	*	*	3	1·15	—	*	*	*	*	* *
b, West .. *a* Killarney ..	69	25th	37	24th	62·5	43·2	52·3	0·0	72	0	*	*	*	*	*	*	4	0·66	- 0·01	*	*	*	*	* *
a Valencia	62	21st	38	25th	60·0	43·3	51·2	- 1·5	64	0	*	*	*	*	*	*	4	0·85	+ 0·17	8·8	+ 2·0	55	+12	Valencia.
a Roche's Point	60	24, 25	43	23, 25	58·3	46·1	51·8	- 0·9	69	0	*	*	*	*	*	*	6	0·86	+ 0·31	6·4	—	41	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	63	25th	46	25th	59·6	48·6	53·8	+ 0·4	83	0	*	*	*	*	*	*	5	0·25	- 0·12	9·2	+ 1·4	59	+ 9	Scilly.
a Jersey, St. Aubins ..	71	19th	47	19, 25	63·1	50·3	56·3	+ 1·7	100	0	*	*	*	*	*	*	2	0·13	- 0·32	9·7	+ 1·6	63	+10	St. Heliers.
a Guernsey (Villa Carey)	68	19th	48	25th	63·0	50·6	56·4	+ 2·6	101	0	0	36	60·7	+3·9	56·5	+3·5	2	0·26	- 0·18	9·8	+ 1·4	64	+ 9	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·8 hrs. 43 %; Ramsgate, 8·2 hrs. 52 %; Rhyl, 5·4 hrs. 34 %; Salcombe, 5·2 hrs. 33 %; Tenby, 6·1 hrs. (- 1·3) 38 % (- 8 %); Torquay, 5·5 hrs. (- 2·0) 35 % (- 13 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, May 25th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	48	47	47·1	+0·2	SCOTLAND, W. ..	Lamlash	53	42	47·8	-1·7
	Kirkwall	50	50	50·0	+0·5		Ballantrae	53	48	50·9	+0·8
	Wick	49	49	49·0	+1·2	ENGLAND, N.W. ..	Port Erin	52	48	49·8	+0·5
SCOTLAND, E. ..	Cromarty	51	49	49·7	-0·1		Newquay	55	54	54·1	0·0
	Pennan Bay	53	51	52·0	+1·9	ENGLAND, S.W. ..	Scilly	58	53	55·7	—
	Aberdeen, Cove Bay	49	49	49·0	+1·5		Plymouth‡	55	54	54·7	+2·2
ENGLAND, N.E. ..	Burnmouth, Berwick	47	46	46·8	+0·4		Salcombe	56	53	54·7	+2·4
	Scarborough	58	49	51·7	+3·5	IRELAND, N.W. ..	Sheephaven	50	50	50·0	-2·4
ENGLAND, E. ..	Shipwash Lightship	56	51	53·3	+1·9		Teelin	58	51	53·7	+0·8
	Margate‡	59	55	56·6	+2·5	IRELAND, S.W. ..	Cleggan	54	53	53·1	+0·4
ENGLAND, S.E. ..	Eastbourne‡	57	55	56·3	+1·7	IRELAND, E.	Seafield	56	51	54·2	-0·4
							.. ..	—	—	—	—

‡ Only one observation each day

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-FIRST WEEK—May 19th to May 25th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	66	31	53·1	39·7	46·0	− 2·7	38	− 14	6	+ 2	3	− 1	0·13	−0·44	8·1	+2·5	48	+15
Eastern.																		
1. SCOTLAND, EAST ...	65	28	55·0	38·6	46·3	− 3·3	44	− 15	10	+ 6	4	+ 1	0·24	−0·27	5·4	−0·8	33	− 5
2. ENGLAND, N.E.	66	33	55·5	43·1	48·9	− 1·8	48	− 14	0	− 1	4	+ 1	1·53	+1·13	4·9	−1·4	31	− 8
3. ENGLAND, EAST ...	69	36	61·1	46·4	53·3	+ 0·6	79	+ 2	0	− 1	2	− 1	0·23	−0·21	5·7	−1·2	36	− 7
4. MIDLAND COUNTIES ...	70	35	59·6	44·1	51·3	− 1·3	65	− 12	0	− 2	4	+ 1	1·23	+0·71	4·2	−2·5	26	−12
5. ENGLAND, S.E.	68	33	60·9	46·4	53·2	− 0·8	78	− 7	0	0	2	− 1	0·24	−0·20	6·7	−0·2	43	− 1
Western.																		
6. SCOTLAND, WEST ...	64	33	57·5	41·5	49·0	− 2·2	51	− 16	1	− 1	2	− 2	0·36	−0·28	5·7	−1·0	35	− 6
7. ENGLAND, N.W.	64	32	56·8	43·6	49·8	− 2·3	55	− 17	0	− 1	3	0	0·75	+0·23	4·9	−1·8	30	−11
8. ENGLAND, S.W.	65	31	58·5	45·8	51·8	− 1·3	69	− 10	0	− 1	3	0	0·59	+0·09	5·8	−1·0	37	− 6
9. IRELAND, NORTH ...	65	29	56·8	42·8	49·4	− 2·2	52	− 16	0	− 1	2	− 2	0·27	−0·27	5·7	−0·7	35	− 5
10. IRELAND, SOUTH ...	69	35	59·2	43·4	50·8	− 2·2	62	− 15	0	0	4	+ 1	0·72	+0·15	5·9	−1·0	37	− 6
11. ENGLISH CHANNEL ...	71	46	61·9	49·8	55·5	+ 1·2	95	+ 9	0	0	3	0	0·21	−0·28	9·6	+1·6	62	+10

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 12 Weeks, March 3rd to May 25th, 1912.

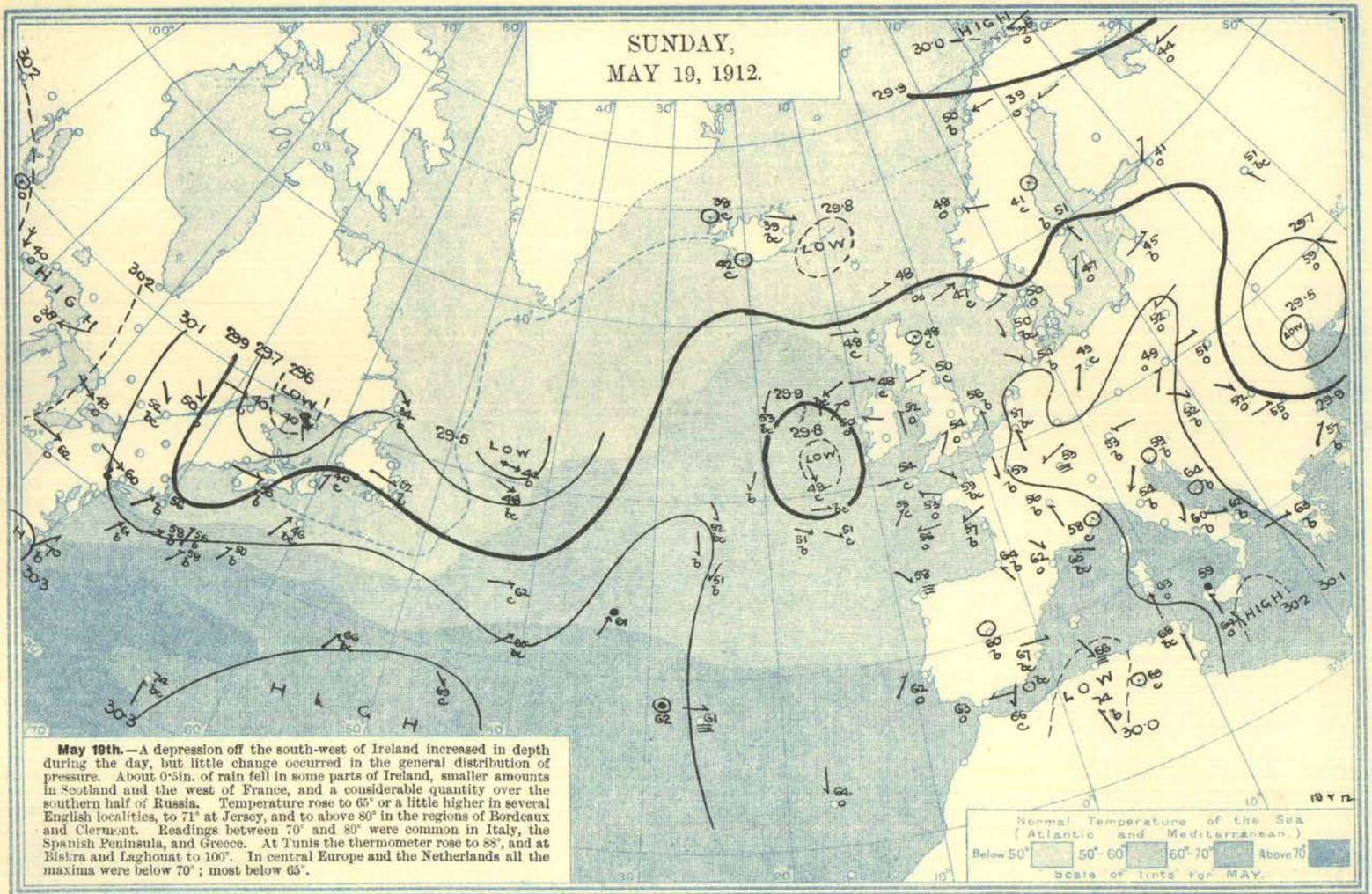
0. SCOTLAND, NORTH ...	71	25	*	*	*	*	364	+ 36	131	− 92	57	+ 3	12·45	+3·13	4·6	+0·2	33	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	70	20	*	*	*	*	478	+ 82	176	− 64	45	0	5·06	−0·73	5·0	+0·2	36	+ 2
2. ENGLAND, N.E	78	26	*	*	*	*	538	+139	102	− 72	34	− 7	4·68	+0·02	5·1	0·0	37	0
3. ENGLAND, EAST ...	82	26	*	*	*	*	668	+155	67	−115	35	− 4	3·65	−0·84	5·6	+0·3	41	+ 2
4. MIDLAND COUNTIES ...	81	24	*	*	*	*	644	+117	101	− 95	35	− 3	5·65	+0·62	4·8	0·0	35	0
5. ENGLAND, S.E.	77	23	*	*	*	*	679	+125	48	− 74	32	− 5	4·50	−0·20	5·9	+0·6	43	+ 4
Western.																		
6. SCOTLAND, WEST ...	71	24	*	*	*	*	483	+ 56	76	− 86	47	+ 1	7·80	−0·56	4·9	−0·1	36	− 1
7. ENGLAND, N.W.	70	25	*	*	*	*	537	+ 89	67	− 68	39	− 3	6·05	−0·07	4·9	0·0	36	0
8. ENGLAND, S.W.	73	24	*	*	*	*	619	+ 94	30	− 72	42	+ 1	7·62	+1·02	4·7	−0·7	35	− 5
9. IRELAND, NORTH ...	69	29	*	*	*	*	518	+ 60	66	− 62	46	− 4	6·18	−0·70	4·2	−0·5	31	− 4
10 IRELAND, SOUTH ...	70	29	*	*	*	*	636	+ 90	37	− 57	52	+ 7	6·71	−0·67	4·9	−0·3	36	− 3
11. ENGLISH CHANNEL ...	76	35	*	*	*	*	777	+172	3	− 27	46	+ 3	6·50	+0·99	6·0	−0·4	44	− 3

THE YEAR.—Aggregates, &c., for the Period of 21 Weeks, December 31st, 1911, to May 25th, 1912.

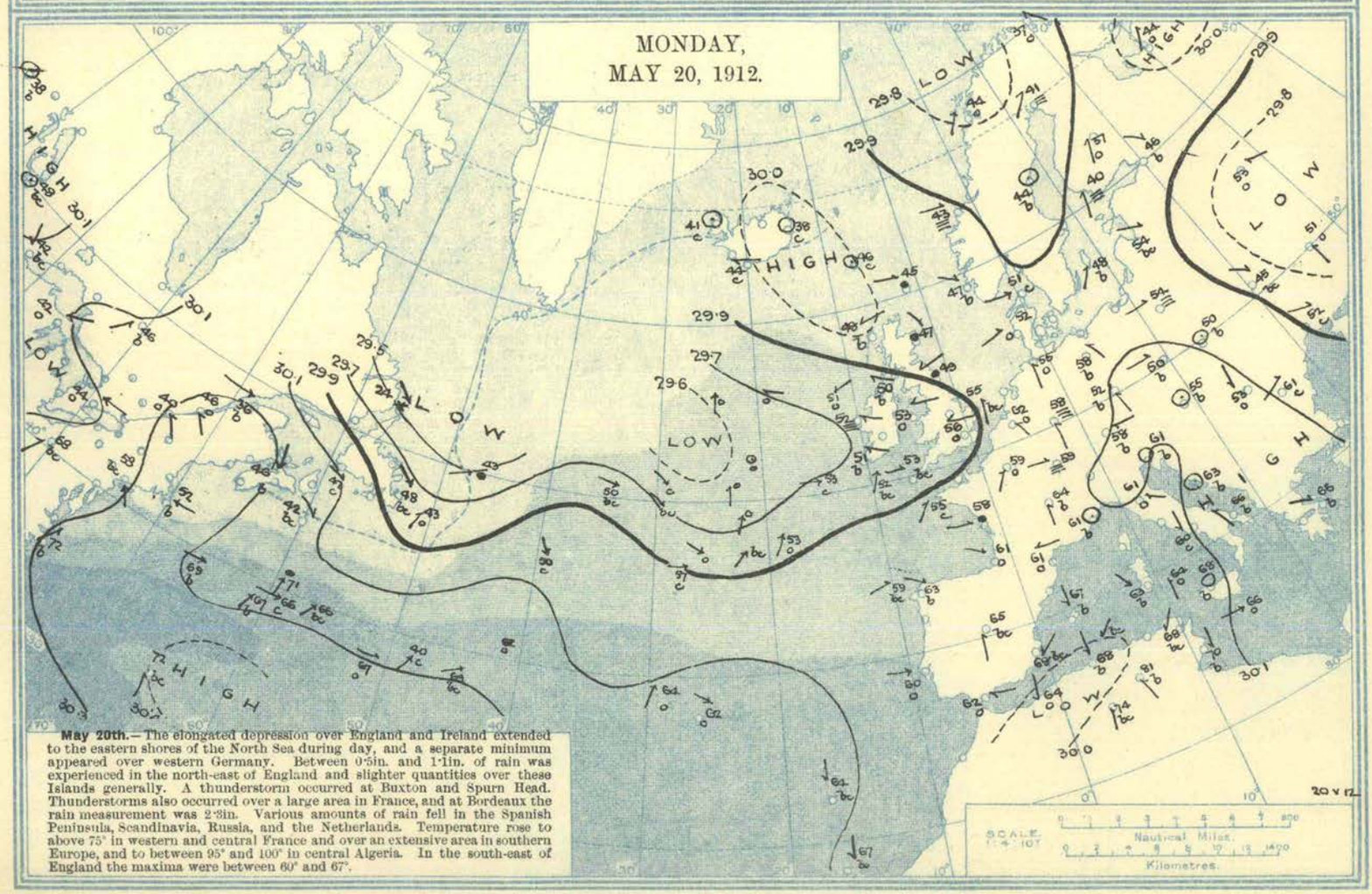
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	438	+ 50	427	−126	101	+ 1	20·02	−0·26	3·3	+0·2	29	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	70	−5	*	*	*	*	553	+ 89	519	− 98	88	+ 8	10·45	−0·33	3·5	0·0	31	0
2. ENGLAND, N.E.	78	10	*	*	*	*	639	+160	373	−102	75	+ 1	9·18	+1·13	3·5	−0·3	30	− 2
3. ENGLAND, EAST ...	82	14	*	*	*	*	800	+197	274	−247	74	+ 1	7·94	+0·08	3·8	−0·2	33	− 2
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	771	+140	373	−159	73	+ 2	11·37	+2·16	3·3	−0·3	28	− 2
5. ENGLAND, S.E.	77	13	*	*	*	*	834	+162	218	−163	71	+ 2	10·32	+1·17	3·9	0·0	34	0
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	574	+ 58	329	− 95	86	0	16·55	−0·66	3·4	−0·2	30	− 1
7. ENGLAND, N.W.	70	7	*	*	*	*	661	+119	298	− 88	78	0	11·89	+0·10	3·5	0·0	31	0
8. ENGLAND, S.W.	73	9	*	*	*	*	797	+121	189	−112	88	+11	15·80	+2·20	3·4	−0·6	29	− 5
9. IRELAND, NORTH ...	69	15	*	*	*	*	677	+ 94	237	−108	80	−12	12·87	−0·54	3·2	−0·3	27	− 3
10. IRELAND, SOUTH ...	70	13	*	*	*	*	845	+113	167	− 92	98	+15	15·56	+0·63	3·6	−0·3	31	− 3
11. ENGLISH CHANNEL ...	76	27	*	*	*	*	1,098	+274	44	− 65	85	+ 1	12·83	+1·41	4·4	−0·4	37	− 4

NOTES ON TABLE IV.

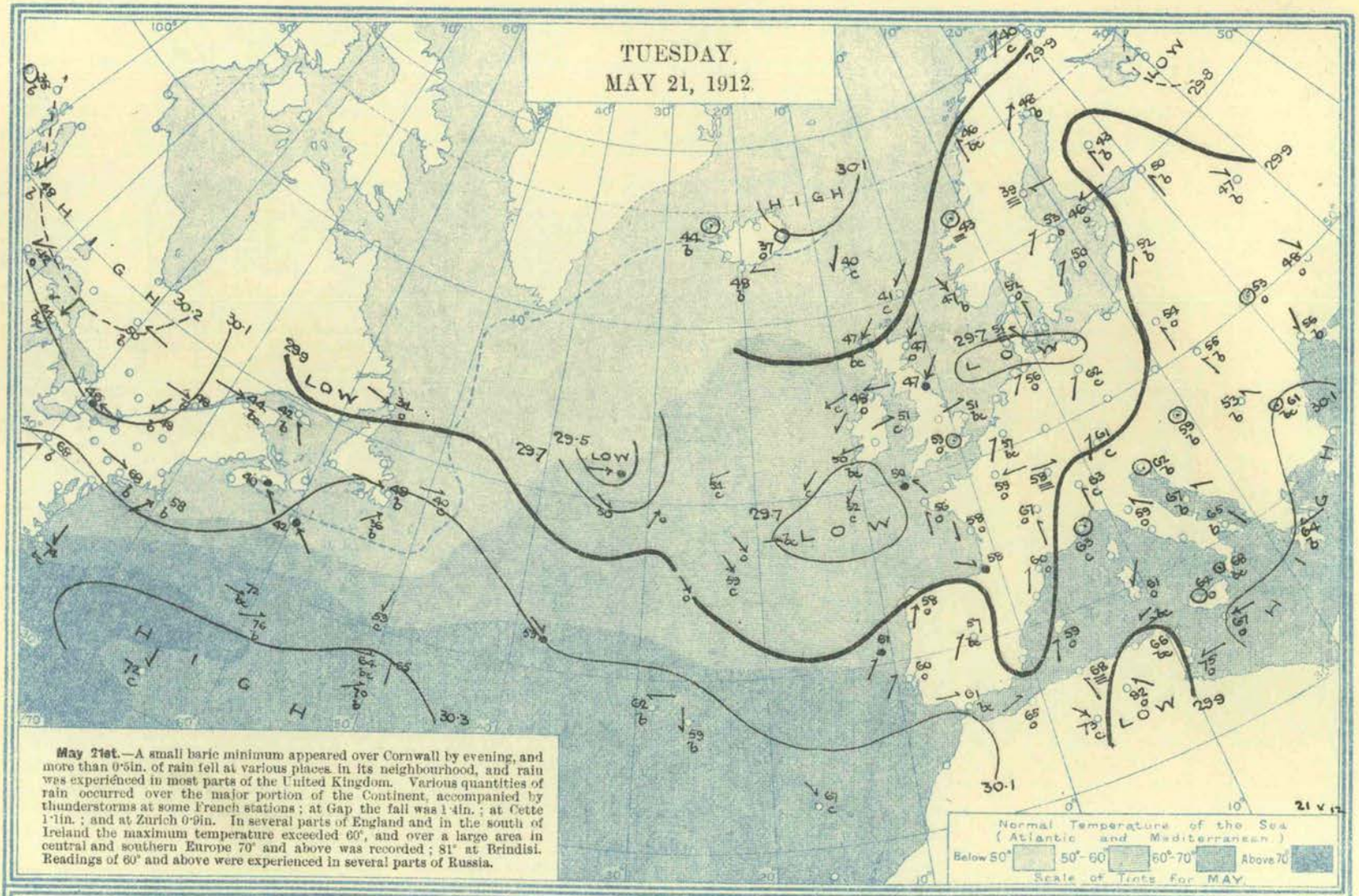
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



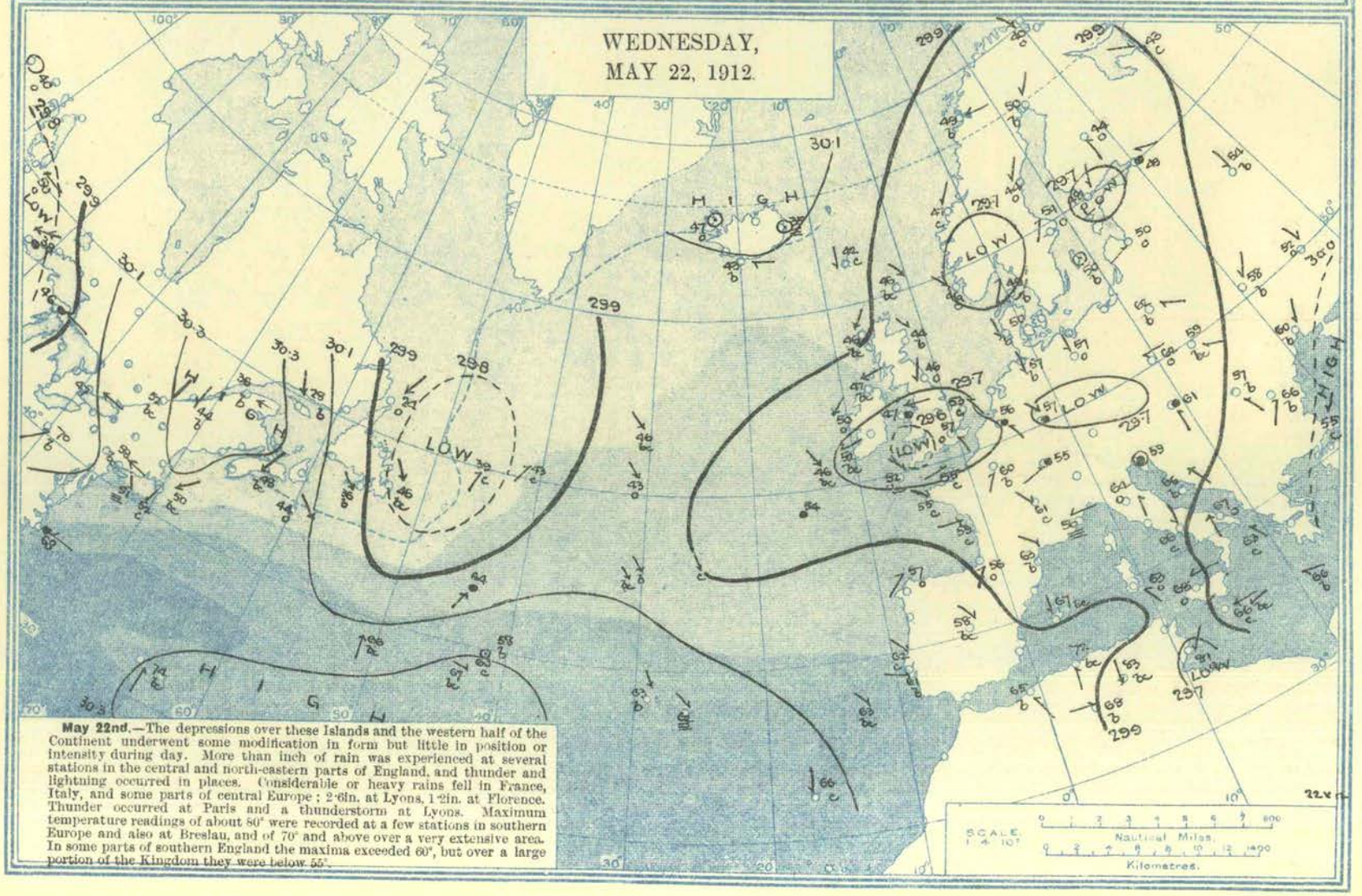
May 19th.—A depression off the south-west of Ireland increased in depth during the day, but little change occurred in the general distribution of pressure. About 0·5in. of rain fell in some parts of Ireland, smaller amounts in Scotland and the west of France, and a considerable quantity over the southern half of Russia. Temperature rose to 65° or a little higher in several English localities, to 71° at Jersey, and to above 80° in the regions of Bordeaux and Clermont. Readings between 70° and 80° were common in Italy, the Spanish Peninsula, and Greece. At Tunis the thermometer rose to 88°, and at Biskra and Laghouat to 100°. In central Europe and the Netherlands all the maxima were below 70°; most below 65°.



May 20th.—The elongated depression over England and Ireland extended to the eastern shores of the North Sea during day, and a separate minimum appeared over western Germany. Between 0·5in. and 1·1in. of rain was experienced in the north-east of England and slighter quantities over these Islands generally. A thunderstorm occurred at Buxton and Spurn Head. Thunderstorms also occurred over a large area in France, and at Bordeaux the rain measurement was 2·3in. Various amounts of rain fell in the Spanish Peninsula, Scandinavia, Russia, and the Netherlands. Temperature rose to above 75° in western and central France and over an extensive area in southern Europe, and to between 95° and 100° in central Algeria. In the south-east of England the maxima were between 60° and 67°.

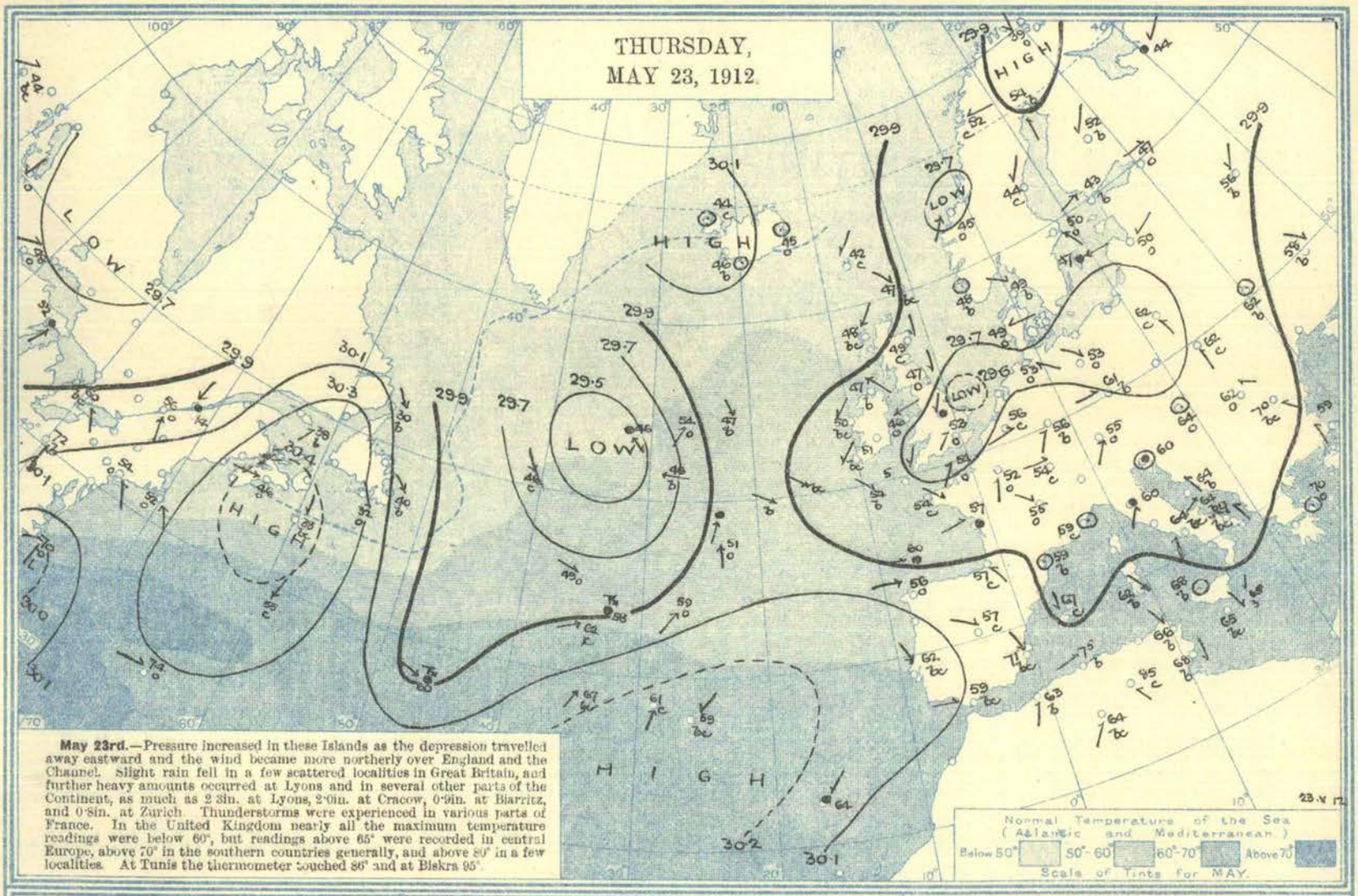


May 21st.—A small baric minimum appeared over Cornwall by evening, and more than 0·5in. of rain fell at various places in its neighbourhood, and rain was experienced in most parts of the United Kingdom. Various quantities of rain occurred over the major portion of the Continent, accompanied by thunderstorms at some French stations; at Gap the fall was 1·4in.; at Cette 1·1in.; and at Zurich 0·9in. In several parts of England and in the south of Ireland the maximum temperature exceeded 60°, and over a large area in central and southern Europe 70° and above was recorded; 81° at Brindisi. Readings of 60° and above were experienced in several parts of Russia.



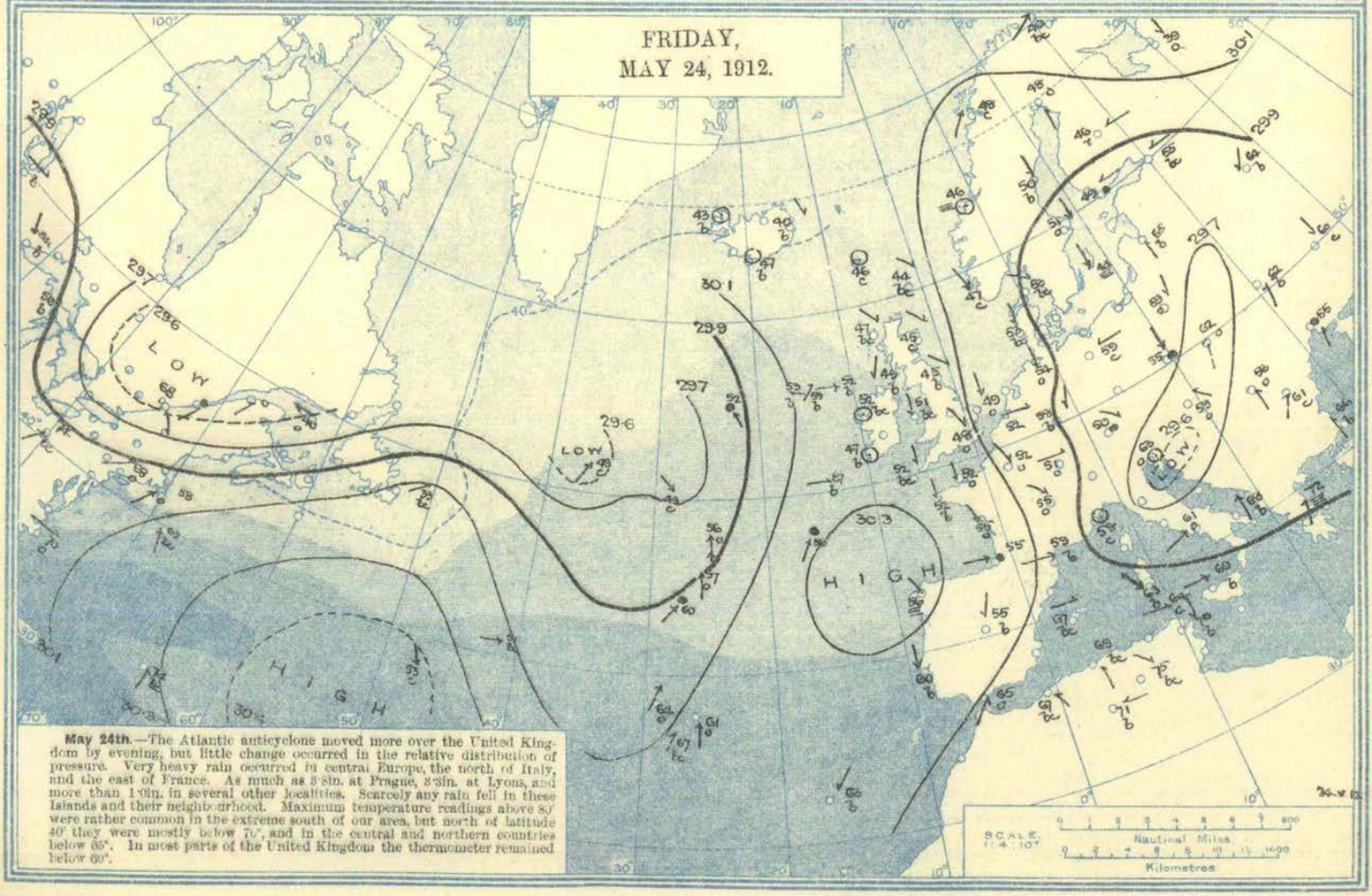
May 22nd.—The depressions over these Islands and the western half of the Continent underwent some modification in form but little in position or intensity during day. More than inch of rain was experienced at several stations in the central and north-eastern parts of England, and thunder and lightning occurred in places. Considerable or heavy rains fell in France, Italy, and some parts of central Europe; 2·6in. at Lyons, 1·2in. at Florence. Thunder occurred at Paris and a thunderstorm at Lyons. Maximum temperature readings of about 80° were recorded at a few stations in southern Europe and also at Breslau, and of 70° and above over a very extensive area. In some parts of southern England the maxima exceeded 60°, but over a large portion of the Kingdom they were below 55°.

THURSDAY, MAY 23, 1912.

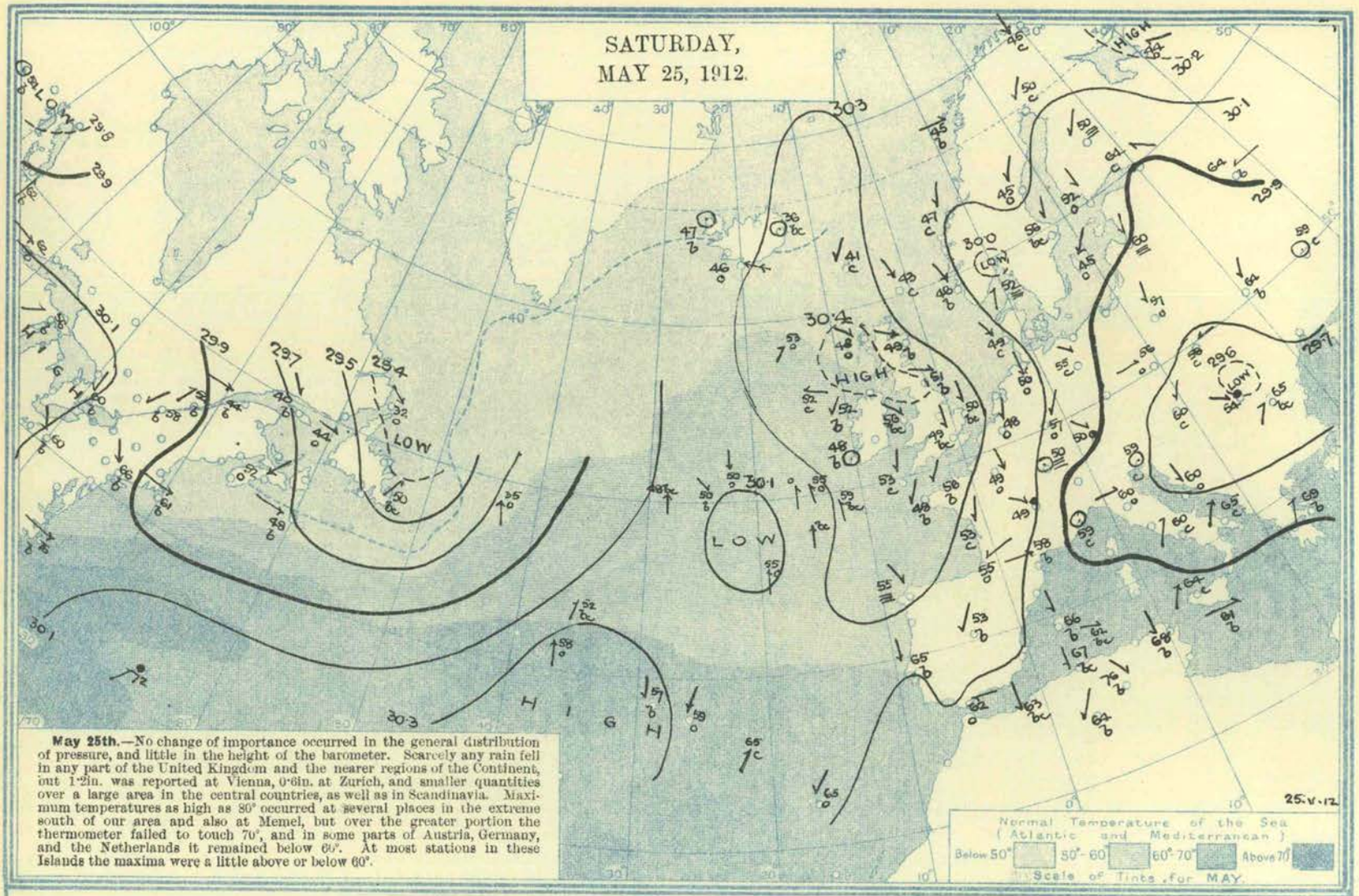


May 23rd.—Pressure increased in these Islands as the depression travelled away eastward and the wind became more northerly over England and the Channel. Slight rain fell in a few scattered localities in Great Britain, and further heavy amounts occurred at Lyons and in several other parts of the Continent, as much as 2·3in. at Lyons, 2·0in. at Cracow, 0·9in. at Biarritz, and 0·8in. at Zurich. Thunderstorms were experienced in various parts of France. In the United Kingdom nearly all the maximum temperature readings were below 60°, but readings above 65° were recorded in central Europe, above 70° in the southern countries generally, and above 80° in a few localities. At Tunis the thermometer touched 86° and at Biskra 95°.

FRIDAY, MAY 24, 1912.

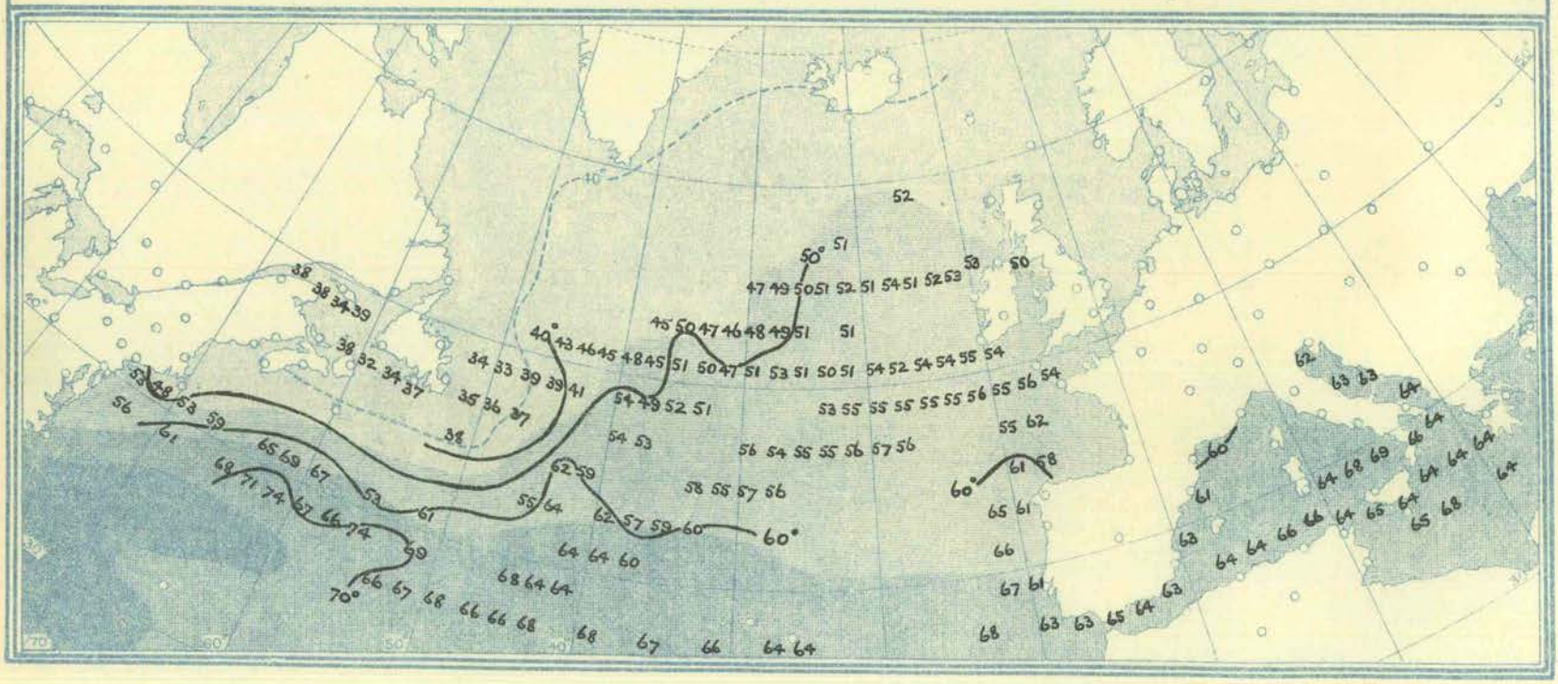


May 24th.—The Atlantic anticyclone moved more over the United Kingdom by evening, but little change occurred in the relative distribution of pressure. Very heavy rain occurred in central Europe, the north of Italy, and the east of France. As much as 3·8in. at Prague, 3·3in. at Lyons, and more than 1·0in. in several other localities. Scarcely any rain fell in these Islands and their neighbourhood. Maximum temperature readings above 80° were rather common in the extreme south of our area, but north of latitude 40° they were mostly below 70°, and in the central and northern countries below 65°. In most parts of the United Kingdom the thermometer remained below 60°.



May 25th.—No change of importance occurred in the general distribution of pressure, and little in the height of the barometer. Scarcely any rain fell in any part of the United Kingdom and the nearer regions of the Continent, but 1·2in. was reported at Vienna, 0·6in. at Zurich, and smaller quantities over a large area in the central countries, as well as in Scandinavia. Maximum temperatures as high as 80° occurred at several places in the extreme south of our area and also at Memel, but over the greater portion the thermometer failed to touch 70°, and in some parts of Austria, Germany, and the Netherlands it remained below 60°. At most stations in these Islands the maxima were a little above or below 60°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 25TH. MAY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✻ = snow; ↯ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 22. TWENTY-SECOND WEEK, SUNDAY, MAY 26TH, TO SATURDAY, JUNE 1ST, 1912. *Price 6d.* *Annual Subscription Post Paid £1 10s 0d*

I.—General Remarks.

Weather continued fine and dry generally until after the middle of the week when there was a change to a showery and thundery condition. Thunderstorms were experienced over a large area in England on May 30th and 31st, and in some localities on June 1st. At Markree thunder was reported every day, and at Foynes a thunderstorm occurred on Saturday. Solar Haloes were observed at Ruthwell and Armagh on the 26th.

Temperature was rather more than a degree below the average over the Kingdom generally, but slightly above it in Scotland West and the English Channel. The highest of the maxima were recorded on somewhat irregular dates and ranged from 74° in England East, and 73° in the Midland Counties to 67° in England North-East and Ireland North, and to 65° in Scotland North. The absolute minima, which were generally registered early in the week, were as low as 29° in England South-West (at Llangammarch Wells), 30° in Scotland East, and 32° in Scotland West. In Scotland North, England North-East, and Ireland South the minimum was 36°, and in the English Channel, 41°. The lowest grass readings reported were 24° at Greenwich and West Linton, 25° at Crathes and Birmingham, and 26° at Newton Rigg, Aberystwyth and Dublin. The temperature of the earth at a depth of 4 feet remained above the average at almost all stations, but at the depth of 1 foot it was below the normal over the greater part of the Kingdom.

Mean Temperature of the Sea. The water was colder than during the corresponding week of last year very generally, but at most stations its temperature was above the average. The means for the week ranged from 58° at Eastbourne, 57° at Margate, 56½° at Scilly to 48° at Lerwick, and to 47° at Burnmouth.

Rainfall was less than the average except in England North-East, the Midland Counties, and the English Channel, the deficit being large in Scotland. At Aberdeen the week was rainless, and at some other places in Scotland, and the northern parts of England and Ireland the fall was less than 0·1 inch. During a thunderstorm on Saturday 1·09 inch fell at Foynes.

Bright Sunshine varied considerably in the different parts of the Kingdom, being more prevalent in the western than in the eastern section. The daily mean equalled 10·4 hours in the English Channel, nearly 9 hours in England South-West and Ireland South, and 7·5 hours in England South-East. In England North-East it was only 3·8 hours. The percentage of the possible duration ranged from 66 in the English Channel, and 56 in England South-West to 27 in Scotland East, and to 23 in Scotland North and England North-East.

Barometer and Wind. During the earlier half of the week the pressure distribution was anticyclonic, and the wind light from some point between N.E. and N.W., but depressions subsequently appeared over the United Kingdom and the immediate neighbourhood, and the winds, while they continued light or moderate in force, became variable in direction.

THE WEEK.

For explanation of the terms "Unusual" &c., *see* p. 87.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient	Moderate	Deficient	Moderate
	Rainfall ...	Light	Light	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy
	Sunshine ...	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Abundant	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SPRING, 13 weeks from March 3rd, 1912.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

PAST SEASONS.

SPRING, 1911. Mar. 5th–June 3rd. 13 weeks.	Warmth ...	4 * 1	5 * 2	7 * 1	6 * 1	6 * 1	4 * 1	5 * 3	5 * 2	4 * 2	3 * 1	6 * 3	3 * 2
	Rainfall ...	4 * 6	3 * 5	2 * 8	2 * 3	2 * 6	3 * 4	3 * 8	3 * 7	5 * 7	3 * 7	4 * 6	3 * 6
	Sunshine ...	6 * 3	4 * 5	1 * 5	2 * 3	1 * 5	4 * 4	5 * 3	4 * 2	4 * 3	5 * 4	4 * 3	4 * 5
SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5

(24726—24.) Wt. 173—814. 450. 6/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Average.	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from Average.	Mean.	Difference from Average.								
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	52	*29th*	40	*27th*	*49·4*	*43·1*	*46·1*	—	*29*	*0*	•	•	48·2	•	•	•	*1*	*0·06*	—	*1·4*	—	*8*	—	*Baltasound.*
a Lerwick	50	28, 29, 30	41	26, 27	49·1	42·9	45·8	- 0·9	27	0	•	•	•	•	•	•	1	0·02	—	2·4	- 3·1	14	-18	Deerness.
a, Islands .. *a* Stornoway	58	28th	41	1st	55·1	44·6	49·5	+ 0·5	53	0	•	•	•	•	•	•	4	0·38	- 0·17	4·9	- 1·3	28	- 8	Stornoway.
a Castlebay, Barra Isd. ..	*59*	*30, 31*	*45*	*26th*	*55·9*	*47·6*	*51·5*	- *1·0*	*67*	*0*							*6*	*0·22*	—	*7·4*	—	*44*	—	*Castlebay.*
a Wick	53	28th	38	26th	50·3	42·7	46·3	- 2·8	30	0	•	•	•	•	•	•	1	0·02	- 0·40	•	•	•	•	•
p Strathpeffer ..	61	28, 1	37	27th	58·7	43·9	50·9	+ 0·4	62	0	•	•	•	•	•	•	3	0·24	- 0·19	4·4	- 1·1	26	- 6	Strathpeffer.
b, Main- *p* Glencarron ..	58	28, 31	40	26, 27	56·7	42·4	49·1	- 0·4	50	0	•	•	•	•	•	•	3	0·40	- 0·58	•	•	•	•	•
land. *p* Fort Augustus..	61	28, 29	40	26th	57·7	44·1	50·5	0·0	60	0	•	•	•	•	•	•	5	0·17	- 0·31	4·3	- 0·2	25	- 1	Fort Augustus.
p Fort William ..	65	28th	36	26, 30	61·7	42·9	51·7	+ 0·1	68	0	•	•	•	•	•	•	4	0·18	- 0·64	•	•	•	•	•
1. SCOTLAND, E.											2	25	51·0	-1·9	48·7	0·0	—	—	—	4·1	—	24	—	Crathes S.
p Gordon Castle.. S	61	29th	41	26th	57·3	44·0	50·3	- 0·7	58	0	•	•	•	•	•	•	1	0·05	- 0·42	*4·5*	—	*26*	—	*Gordon Castle.*
a Nairn	62	29th	37	27th	57·4	42·7	49·6	- 1·6	53	0	•	•	•	•	•	•	2	0·15	- 0·25	5·3	—	31	—	Nairn.
a Aberdeen ..	61	28th	37	26th	55·7	43·0	49·0	- 1·3	49	0	•	•	•	•	48·4	+0·4	0	0·00	- 0·45	5·6	- 0·6	33	- 4	Aberdeen.
a Balmoral ..	60	29, 31	30	27th	57·7	39·7	48·2	- 0·5	53	6	1	27	•	•	•	•	2	0·03	- 0·52	•	•	•	•	Balmoral.
p Crieff	68	28th	35	26th	61·3	41·0	50·5	- 2·1	64	3	•	•	•	•	•	•	3	0·30	- 0·30	3·3	—	20	—	Balruddery.
a Leith	63	28th	38	27th	58·6	44·0	50·9	- 1·4	62	0	•	•	•	•	•	•	2	0·06	- 0·35	•	•	•	•	•
p West Linton .. S	63	1st	31	26th	58·7	39·6	48·6	- 0·7	56	7	3	24	•	•	•	•	4	0·22	—	*5·5*	•	*33*	•	*West Linton.*
p Marchmont .. S	63	28th	35	27th	58·1	42·3	49·7	- 0·3	54	0	0	31	51·3	-2·1	•	•	1	0·05	- 0·49	5·0	- 0·9	30	- 5	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	64	29th	36	27th	57·6	43·4	50·1	- 0·4	57	0	0	33	53·2	-0·9	49·9	+0·1	2	0·06	- 0·41	5·0	—	30	—	Cockle Park.
a Shields	61	29th	42	27th	55·7	45·0	50·0	- 0·9	56	0	•	•	•	•	•	•	4	0·26	- 0·14	•	•	•	•	*Newcastle.*
p Durham	63	28, 30	37	27th	58·9	43·7	50·8	- 0·5	62	0	0	34	•	•	•	•	4	0·38	- 0·04	3·1	- 2·5	19	-15	Durham.
a, North .. *p* Rounton	63	29th	40	26th	57·8	44·4	50·7	+ 0·3	61	0	0	35	54·1	•	•	•	5	0·37	- 0·08	•	•	•	•	Rounton.
a West Witton ..	*64*	*28th*	*37*	*27th*	*59·3*	*44·0*	*51·2*	—	*64*	*0*	0	34	52·9	•	48·2	•	*4*	*0·78*	—	•	•	•	•	*West Witton.*
p Scarborough ..	61	29th	45	27th	55·1	47·0	50·8	- 1·0	62	0	•	•	•	•	•	•	4	0·42	- 0·01	3·4	—	21	—	Scarborough.
p York	65	30th	41	26th	62·3	46·4	53·9	+ 0·3	83	0	•	•	53·8	-0·1	51·0	+1·2	5	0·54	+ 0·08	3·4	- 2·4	21	-15	York.
a Spurn Head	59	29, 30	44	27th	55·9	47·3	51·3	- 1·0	65	0	0	33	53·0	-1·7	50·0	+0·8	3	0·26	- 0·08	*2·1*	—	*13*	—	*Hull.*
b, South .. *a* Lincoln	67	30th	42	26th	62·4	47·3	54·4	- 0·1	87	0	•	•	53·5	-2·4	51·3	+0·7	4	0·78	+ 0·35	•	•	•	•	Lincoln.
a Fulbeck	67	30th	41	26th	62·1	45·4	53·3	- 0·2	79	0	0	36	55·9	-3·7	52·2	+0·2	5	1·27	+ 0·83	3·2	—	20	—	Rauceby.
											•	•	•	•	•	•	—	—	—	4·7	—	29	—	Skegness.
											0	33	56·1	-1·5	53·1	+0·3	—	—	—	*5·9*	—	*37*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	65	30th	40	27th	58·3	45·6	51·6	- 0·9	67	0	•	•	•	•	•	•	3	0·21	—	4·5	—	28	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	62	30th	38	27th	57·6	46·6	51·8	- 0·8	69	0	•	•	58·0	-2·4	55·0	+0·1	3	0·62	+ 0·23	6·4	—	40	—	Yarmouth.
a Norwich	74	30th	36	27th	63·4	44·4	53·3	+ 0·3	79	0	0	31	56·4	•	•	•	4	0·17	—	*4·7*	—	*29*	—	*Norwich.*
p Geldeston	70	30th	35	27th	62·6	43·6	52·5	- 0·5	74	0	•	•	•	•	•	•	3	0·13	- 0·28	5·4	- 1·7	34	-11	Geldeston.
p Cambridge	71	30th	35	26th	66·4	43·7	54·4	+ 0·2	87	0	0	31	57·7	+0·3	54·6	+1·2	3	0·24	- 0·22	6·4	- 0·3	40	- 2	Cambridge.
a Felixstowe ..	*64*	*26th*	*40*	*27th*	*61·6*	*47·4*	*54·1*	+ *0·5*	*85*	*0*	•	•	•	•	•	•	*3*	*0·12*	—	*7·2*	—	*45*	—	*Felixstowe.*
a Clacton-on-Sea ..	65	27th	41	26th	62·4	47·3	54·4	+ 1·2	87	0	1	28	55·8	-1·2	54·0	+0·1	4	0·16	—	7·2	—	45	—	Clacton.
b, South .. *a* Rothamsted ..	71	30th	36	26th	66·6	41·6	53·4	+ 0·1	81	1	•	•	•	•	•	•	3	0·43	- 0·02	7·4	+ 0·9	46	+ 6	Rothamsted.
a Shoeburyness ..	*68*	*30th*	*41*	*26th*	*64·7*	*46·7*	*55·2*	- *0·5*	*92*	*0*	0	34	59·4	-0·2	•	•	*3*	*0·33*	+ *0·03*	*7·6*	—	*47*	—	*Southend.*
p Tottenham	71	29, 30	40	26th	67·7	46·6	56·5	+ 1·9	102	0	0	37	•	•	55·8	+2·1	2	0·31	—	6·7	—	42	—	Tottenham.
											0	35	53·8	-1·7	49·1	+0·6	—	—	—	*3·9*	—	*24*	—	*Huddersfield.*
4. MIDLAND COUNTIES.																								
a Harrogate	62	29th	40	26th	59·3	44·1	51·2	- 0·2	64	0	0	37	52·2	+0·5	50·1	+0·6	5	1·04	+ 0·54	3·9	—	24	—	Harrogate.
a Bawtry	65	30th	40	27th	62·3	46·0	53·7	- 0·1	82	0	0	31	55·1	•	51·8	•	4	1·36	+ 0·94	3·7	- 1·8	23	-11	Worksop.
p Buxton	*63*	*1st*	*36*	*26th*	*59·7*	*43·1*	*50·9*	+ *1·0*	*62*	*0*	0	27	52·4	-2·2	48·6	+0·5	*3*	*0·31*	- *0·41*	*6·3*	—	*39*	—	*Buxton.*
a East .. *a* Nottingham	66	29, 30	39	26th	63·4	45·3	53·8	0·0	83	0	0	32	55·7	-0·3	51·7	+0·7	4	0·54	+ 0·11	5·1	—	31	—	Nottingham.
p Birmingham, Edgbsn.	66	30th	41	27th	63·9	46·7	54·8	+ 1·4	90	0	3	25	50·8	-0·8	49·0	+1·6	3	0·50	0·00	7·0	—	44	—	Birmingham.
a Raunds	73	30th	40	26, 29	67·1	44·6	55·2	+ 1·6	92	0	0	32	55·7	•	51·8	•	3	0·26	—	•	•	•	•	Raunds.
a Oxford	69	30th	41	27th	66·0	45·7	55·2	+ 0·8	92	0	0	—	•	•	•	•	3	0·23	- 0·20	7·0	+ 0·5	44	+ 3	Oxford.
											0	33	52·3	-1·1	49·2	+0·9	—	—	—	*4·2*	—	26	—	Sheffield.
a Cheadle	68	1st	45	26th	65·1	47·5	55·8	+ 3·9	97	0	0	31	•	•	•	•	3	0·69	+ 0·17	•	•	•	•	Cheadle.
p Shrewsbury	65	26, 28	35	27th	62·7	41·9	51·7	- 2·5	68	0	0	36	•	•	•	•	2	0·34	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	70	27th	39	26, 27, 29	64·4	42·4	52·7	- 1·7	75	0	0	32	•	•	•	•	1	0·75	+ 0·27	•	•	•	•	Hereford.
a Cirencester	68	30th	36	27th	64·7	41·0	52·1	- 1·1	75	3	0	37	55·6	•	52·3	•	2	0·80	+ 0·30	7·0	+ 0·2	44	+ 2	Cirencester.
a Bath	69	29th	38	27th	66·3	42·4	53·6	- 0·9	81	0	•	•	57·3	-0·2	54·7	+1·0	2	0·16	- 0·32	7·9	—	49	—	Bath.
																				•	•	•	•	Canterbury.
5. ENGLAND, S.E.											1	30	60·2	+3·2	55·4	+2·0	—	—	—	•	•	•	•	
p Kew	72	30th	38	26th	67·1	45·7	55·8	+ 0·7	97	0	2	28	56·9	+0·2	53·4	+1·4	3	0·62	+ 0·19	7·6	+ 1·0	47	+ 6	Kew.
a Marlborough	68	28, 29	34	29th	64·9	38·3	50·8	- 1·9	77	10	2	30	•	•	•	•	2	0·56	+ 0·09	5·6	- 0·5	35	- 3	Marlborough.
a Margate	72	30th	42	26th	65·9	48·9	56·9	+ 2·8	104	0	•	•	55·4	-1·8	52·0	-1·0	2	0·23	- 0·14	7·6	+ 1·2	48	+ 7	Margate.
a Wisley, Surrey ..	72	30th	37	26th	67·7	42·7	54·5	- 0·8	88	0	2	27	57·6	+0·2	54·3	+1·1	3	0·49	—	8·3	—	52	—	Wisley
a Swarraton	67	28, 30, 31	36	27th	64·6	40·9	52·0	- 1·2	75	3	0	35	58·8	-0·6	55·1	+1·6	3	0·41	- 0·06	8·2	—	52	—	Worthing.
a Tunbridge Wells ..	71	30th	36	26th	66·4	43·3	54·2	+ 0·3	85	0	1	30	57·3	-2·3	•	•	2	0·42	- 0·04	7·7	+ 0·9	48	+ 6	Tunbridge Wells.
a Dungeness	63	1st	37	26th	60·9	45·7	52·8	- 1·1	76	0	•	•	•	•	•	•	2	0·37	+ 0·07	6·2	—	39	—	Littlestone.
p Hastings..	65	28, 1	42	26th	61·6	48·0	54·4	0·0	87	0	0	34	58·9	•	55·1	•	3	0·56	+ 0·19	*7·2*	- *0·6*	*45*	- *4*	*Hastings.*
p Southampton	71	29th	43	27th	66·6	46·9	56·2	0·0	99	0	0	38	•	•	•	•	3	0·49	+ 0·05	7·3	+ 0·1	46	+ 1	Southampton.
a Ventnor	68	28th	48	27th	63·7	50·3	56·6	+ 1·5	102	0	0	38	60·1	+1·1	55·9	+1·1	2	0·45	+ 0·05	8·1	+ 0·9	51	+ 6	Ventnor.
											•	•	57·5	•	54·9	•	—	—	—	*8·6*	—	*54*	—	*Portsmouth.*
											•	•	56·9	•	55·5	•	—	—	—	8·0	+ 0·6	50	+ 4	Eastbourne.
LONDON.											0	35	—	•	56·3	•	—	—	—	*9·2*	—	*58*	—	*Bournemouth.*
a Westminster	*72*	*30th*	*42*	*26th*	*68·6*	*47·7*	*57·5*	+ *2·2*	*109*	*0*	0	35	•	•	•	•	—	—	—	*7·7*	+ *0·4*	*48*	+ *2*	*Brighton.*
a Greenwich	*77*	*30th*	*36*	*26th*	*70·6*	*44·4*	*56·7*	+ *1·1*	*103*	*0*	0	24	•	•	•	•	*2*	*0·42*	+ *0·01*	*7·2*	+ *1·6*	*45*	+*10*	*Westminster.*
a Hampstead	*72*	*29, 30*	*43*	*26th*	*68·3*	*47·3*	*57·2*	—	*106*	*0*	0	30	•	•	•	•	*2*	*0·32*	- *0·11*	*7·6*	+ *1·3*	*48*	+ *8*	*Greenwich.*
a Camden Square ..	*77*	*30th*	*41*	*26th*	*71·4*	*46·3*	*58·1*	—	*113*	*0*	0	35	•	•	•	•	*2*	*0·56*	—	*8·1*	—	*51*	—	*Hampstead.*
																	2	*0·55*	—	*6·5*	—	*41*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	63	1st	36	26, 27	59·1	43·0	50·6	- 1·8	60	0	•	•	•	•	•	•	3	0·11	- 0·53	•	•	•	•	•
p Glasgow	65	28th	41	27th	60·0	45·7	52·4	+ 0·2	73	0	2	28	•	•	•	•	3	0·53	- 0·04	4·2	- 1·2	25	- 7	Glasgow.
p Rothesay .. S	66	28th	44	26th	61·7	46·6	53·7	+ 1·3	82	0	•	•	•	•	50·6	+0·4	4	0·92	+ 0·26	•	•	•	•	•
a Kilmarnock ..	67	1st	35	26th	61·9	43·6	52·2	- 0·2	71	0	•	•	•	•	•	•	3	0·28	—	*5·6*	—	*34*	—	*Kilmarnock.*
a Colmonell ..	66	1st	32	26th	61·6	43·9	52·2	- 0·4	71	0	1	30	•	•	•	•	5	0·49	- 0·08	•	•	•	•	•
p Dumfries ..	66	30, 1	40	27th	62·7	45·6	53·6	+ 0·3	81	0	0	31	54·4	•	51·6	•	5	0·57	+ 0·01	*5·7*	—	*34*	—	*Dumfries.*
p Cally, Gatehouse	69	28th	35	26th	65·3	46·6	55·4	+ 3·1	94	0	•	•	•	•	•	•	2	0·31	- 0·38	•	•	•	•	•
b I. OF MAN.																								
p Douglas	63	28th	43	26th	60·1	47·0	53·2	+ 1·3	78	0	0	39	•	•	•	•	3	0·44	- 0·14	7·6	+ 0·3	46	+ 2	Douglas.
											0	31	52·7	-1·9	49·1	-0·1	—	—	—	*5·6*	—	*34*	—	*Burnley.*
											0	36	•	•	•	•	—	—	—	7·8	—	48	—	Hoylake.
7. *a*, ENGLAND, N.W.											1	30	55·5	•	49·8	•	4	0·41	- 0·14	7·6	—	46	—	Aspatria.
p Aspatria	66	1st	38	26, 27, 28	62·1	44·0	52·5	+ 0·7	74	0	2	26	54·1	-0·4	49·6	+0·4	4	0·35	- 0·19	6·1	- 0·5	37	- 3	Newton Rigg.
p Newton Rigg	65	30, 1	35	26th	61·9	43·1	51·9	+ 0·5	69	0	0	33	•	•	•	•	3	0·58	- 0·05	5·5	- 0·9	34	- 6	Stonyhurst.
p Stonyhurst	65	1st	39	26th	61·7	44·7	52·7	0·0	75	0	•	•	•	•	•	•	4	0·37	- 0·12	7·9	+ 1·3	48	+ 8	Blackpool.
p Blackpool	64	1st	38	27th	59·0	45·7	52·0	- 1·1	70	0	•	•	•	•	•	•	—	—	—	•	•	•	•	*Prestwich.*
p Manchester, Prestwich											•	•	•	•	•	•	3	0·31	- 0·15	*7·8*	—	*48*	—	*Liverpool.*
a Liverpool (Bidston) ..	66	1st	45	26th	60·0	47·9	53·6	+ 0·3	81	0	0	33	57·1	-1·5	53·6	-0·7	3	0·28	- 0·15	*8·4*	+ *1·3*	*51*	+ *8*	*Southport.*
a Hawarden Bridge ..	66	1st	39	27th	61·3	44·6	52·5	- 1·9	74	0	0	39	53·9	-1·4	52·3	+1·4	—	—	—	*4·4*	—	27	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	65	28, 31	41	26, 27	63·4	46·9	54·7	+ 2·1	89	0	•	•	•	•	•	•	3	0·49	+ 0·06	9·6	+ 2·8	59	+17	Llandudno.
a Holyhead	61	28, 29	45	26, 27	59·4	47·9	53·3	+ 0·6	79	0	•	•	•	•	•	•	2	0·39	- 0·06	7·8	—	48	—	Aberdovey.
p Bettws-y-Coed ..	68	1st	35	27th	62·0	47·0	54·1	+ 1·2	85	0	0	35	52·6	-1·1	50·6	+1·0	3	0·15	—	8·6	—	53	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND [RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				8·5	—	53	—	Aberystwyth.
a Llangammarch Wells	67	28th	29	26th	63·4	35·4	48·6	- 3·4	74	18	3	26	51·9	-2·2	50·0	+0·6	2	0·43	—	7·8	—	48	—	Llangammarch
a Pembroke	62	26th	44	26, 27	59·4	47·3	53·0	+ 0·3	77	0	*	*	*	*	*	*	2	0·48	+ 0·05	9·8	+ 2·5	61	+16	Pembroke.[Wells
p Cardiff	67	29th	41	26th	64·4	43·6	53·4	- 1·7	80	0	0	34	58·6	+1·0	53·8	+1·4	2	0·53	- 0·02	*10·0*	—	*62*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	69	29th	45	26th	66·0	47·6	56·3	+ 1·1	100	0	0	42	*	*	*	*	2	0·36	- 0·14	*8·4*	—	*53*	—	*Clifton.*
a Shaftesbury	68	28, 29	43	28th	63·7	44·6	53·6	+ 1·5	81	0	*	*	57·4	*	*	*	2	0·32	- 0·18	*	*	*	*	Shaftesbury.
a Arlington	65	28th	37	26th	61·9	41·1	50·9	- 1·5	66	3	*	*	57·3	*	*	*	2	0·49	- 0·16	9·6	+ 2·3	60	+14	Newquay.
a Cullompton	71	29th	35	26th	67·4	40·0	52·9	- 1·5	85	6	0	32	57·6	*	*	*	1	0·42	- 0·08	7·9	+ 1·2	50	+ 7	Cullompton.
a Portland	61	29, 30	49	26th	59·7	51·1	55·1	+ 1·1	92	0	*	*	*	*	*	*	1	0·10	—	*11·6*	—	*73*	—	*Weymouth.*
p Plymouth	68	28th	40	26th	62·0	45·9	53·5	- 1·8	81	0	0	32	59·6	+1·3	*	*	2	0·07	- 0·40	8·4	+ 1·1	53	+ 7	Plymouth.
p Falmouth	63	28th	46	31st	61·1	49·1	54·7	+ 0·6	89	0	*	*	*	*	*	*	3	0·98	+ 0·46	10·5	+ 2·7	66	+17	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	60	28th	42	30th	57·0	46·3	51·3	0·0	65	0	*	*	*	*	*	*	1	0·02	- 0·45	*	*	*	*	* *
a Blacksod Point ..	65	1st	43	27th	60·1	45·9	52·6	- 0·1	74	0	*	*	*	*	*	*	3	0·80	+ 0·20	*	*	*	*	* *
p Markree Castle ..	65	27th	33	30th	62·1	40 0	50·4	- 1·5	67	6	2	29	56·6	*	*	*	4	0·54	- 0·08	6·4	+ 0·5	39	+ 3	Markree Castle.
a Birr Castle	67	27th	38	26, 30	64·0	41·9	52·3	- 0·8	73	0	*	*	*	*	*	*	3	0·19	- 0·32	*7·9*	+ *2·0*	*49*	+*13*	*Birr Castle.*
b, East .. { *p* Armagh	66	28th	35	26th	61·6	43·6	52·1	+ 0·2	71	0	1	29	54·3	-1·7	51·6	+0·1	3	0·33	- 0·24	6·2	+ 0·3	38	+ 2	Armagh.
a Donaghadee ..	61	28, 29	39	26th	57·4	46·6	51·7	- 0·4	68	0	*	*	*	*	*	*	1	0·18	- 0·34	*	*	*	*	* *
											1	30	56·2	+0·6	52·6	+0·2	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											2	26	*	*	*	*	—	—	—	8·7	+ 2·0	55	+14	Phœnix Park.
a, East .. { *p* Dublin, City	64	28th	42	26th	61·7	47·0	53·9	- 0·6	83	0	0	38	*	*	*	*	2	0·08	- 0·37	*	*	*	*	Dublin City.
a Kilkenny	68	27th	38	27, 1	63·7	41·7	52·0	- 1·2	71	1	*	*	*	*	*	*	2	0·26	- 0·24	*	*	*	*	* *
a Waterford	67	28th	40	27th	63·6	43·9	53·2	- 0·9	78	0	*	*	*	*	*	*	0	0·00	- 0·57	*	*	*	*	* *
a Birr Castle	67	27th	38	26, 30	64·0	41·9	52·3	- 0·8	73	0	*	*	*	*	*	*	3	0·19	- 0·32	7·9	+ 2·0	49	+13	Birr Castle.
a Foynes	65	1st	41	1st	61·7	46·1	53·4	- 0·6	80	0	*	*	*	*	*	*	5	1·38	+ 0·85	*	*	*	*	* *
a Cahir	67	27, 28	36	1st	64·7	42·6	53·0	- 0·7	77	0	*	*	*	*	*	*	2	0·21	—	*	*	*	*	* *
b, West .. { *a* Killarney	71	27th	39	31st	65·7	43·7	54·0	+ 0·4	84	0	*	*	*	*	*	*	5	0·36	- 0·31	*	*	*	*	* *
a Valencia	61	26, 1	40	27th	58·9	44·0	51·0	- 2·8	63	0	*	*	*	*	*	*	5	0·15	- 0·57	9·6	+ 2·9	60	+18	Valencia.
a Roche's Point	64	27, 28	44	31st	60·7	46·4	53·1	- 0·8	78	0	*	*	*	*	*	*	4	0·39	- 0·20	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	63	27, 28, 1	48	26, 31, 1	61·6	49·0	54·9	+ 0·3	90	0	*	*	*	*	*	*	3	0·59	+ 0·21	10·8	+ 2·9	68	+18	Scilly.
a Jersey, St. Aubins ..	71	29th	41	26th	65·1	49·3	56·7	+ 1·0	103	0	*	*	*	*	*	*	3	1·02	+ 0·55	10·2	+ 2·1	65	+14	St. Heliers.
a Guernsey (Villa Carey)	71	29th	44	26th	65·0	50·1	57·1	+ 1·9	106	0	0	35	61·4	+3·1	57·6	+3·3	2	0·39	- 0·07	10·1	+ 1·7	64	+11	Guernsey.*

Additional Sunshine Means :—*Bognor, 8·9 hrs. 56 %; Ramsgate, 8·0 hrs. 50 %; Rhyl, 9·3 hrs. 57 %; Salcombe, 10·1 hrs. 64 %; Tenby, 10·3 hrs.* (+2·9) *64 %* (+ *18 %*); *Torquay, 9·7 hrs.* (+2·2) *61 %* (+*14 %*).

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 1st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	48	48	48·0	+0·4	SCOTLAND, W. ..	Lamlash	57	46	51·8	+1·1
	Kirkwall	51	50	50·5	-0·2		Ballantrae	54	49	51·9	+0·9
	Wick	49	49	49·0	+0·1	ENGLAND, N.W. ..	Port Erin	55	50	51·8	+1·7
SCOTLAND, E. ..	Cromarty	54	50	52·0	+1·2		Newquay	55	55	55·0	-0·3
	Pennan Bay	52	51	51·1	-0·4	ENGLAND, S.W. ..	Scilly	58	55	56·5	—
	Aberdeen, Cove Bay	49	49	49·0	+0·6		Plymouth‡	57	55	56·1	+2·4
ENGLAND, N.E. ..	Burnmouth, Berwick	47	47	47·0	-0·8		Salcombe	55	51	54·4	+1·2
	Scarborough	52	49	51·2	+1·7	IRELAND, N.W. ..	Sheephaven	56	52	54·9	+1·1
ENGLAND, E. ..	Shipwash Lightship	56	52	53·7	+0·7		Teelin	58	52	55·5	+0·1
	Margate‡	58	56	57·1	+0·4	IRELAND, S.W. ..	Cleggan	55	53	54·1	+0·5
ENGLAND, S.E. ..	Eastbourne‡	59	56	57·7	+1·5	IRELAND, E.	Seafield	58	53	55·8	+0·1
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-SECOND WEEK—May 26th to June 1st, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	65	36	55·6	43·4	49·1	− 1·1	50	− 10	0	− 2	3	− 1	0·20	−0·36	4·0	−1·6	28	− 9
Eastern.																		
1. SCOTLAND, EAST ...	68	30	58·1	42·0	49·6	− 1·6	53	− 14	0	− 2	2	− 2	0·11	−0·37	4·7	−1·6	27	− 9
2. ENGLAND, N.E.	67	36	58·6	45·5	51·7	− 0·7	68	− 5	0	0	4	+ 1	0·48	+0·05	3·8	−2·5	23	−15
3. ENGLAND, EAST ...	74	35	63·1	44·9	53·5	− 1·0	81	− 7	0	0	3	+ 1	0·28	−0·18	6·3	−0·7	39	− 4
4. MIDLAND COUNTIES ...	73	35	64·1	44·3	53·6	− 0·8	81	− 7	0	− 1	3	0	0·61	+0·11	5·7	−0·5	35	− 3
5. ENGLAND, S.E.	72	34	64·9	45·0	54·4	− 1·2	87	− 8	0	0	3	+ 1	0·46	0·00	7·5	+0·4	47	+ 3
Western.																		
6. SCOTLAND, WEST ...	69	32	61·6	45·3	52·9	+ 0·2	76	0	0	− 1	4	+ 1	0·46	−0·15	5·9	−0·8	35	− 5
7. ENGLAND, N.W.	68	35	61·2	45·8	53·0	− 0·7	77	− 5	0	0	3	0	0·37	−0·13	7·6	+0·8	46	+ 5
8. ENGLAND, S.W.	71	29	62·9	44·6	53·2	− 1·5	78	− 11	0	0	2	− 1	0·42	−0·06	8·9	+2·1	56	+13
9. IRELAND, NORTH ...	67	33	60·3	44·1	51·7	− 1·3	68	− 9	0	0	3	0	0·34	−0·21	6·3	0·0	38	0
10. IRELAND, SOUTH ...	71	36	62·7	44·1	52·9	− 1·5	76	− 11	0	0	3	0	0·34	−0·25	8·7	+2·1	54	+13
11. ENGLISH CHANNEL ...	71	41	63·9	49·5	56·2	+ 0·6	99	+ 4	0	0	3	0	0·67	+0·17	10·4	+2·3	66	+15

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 13 Weeks, March 3rd to June 1st, 1912.

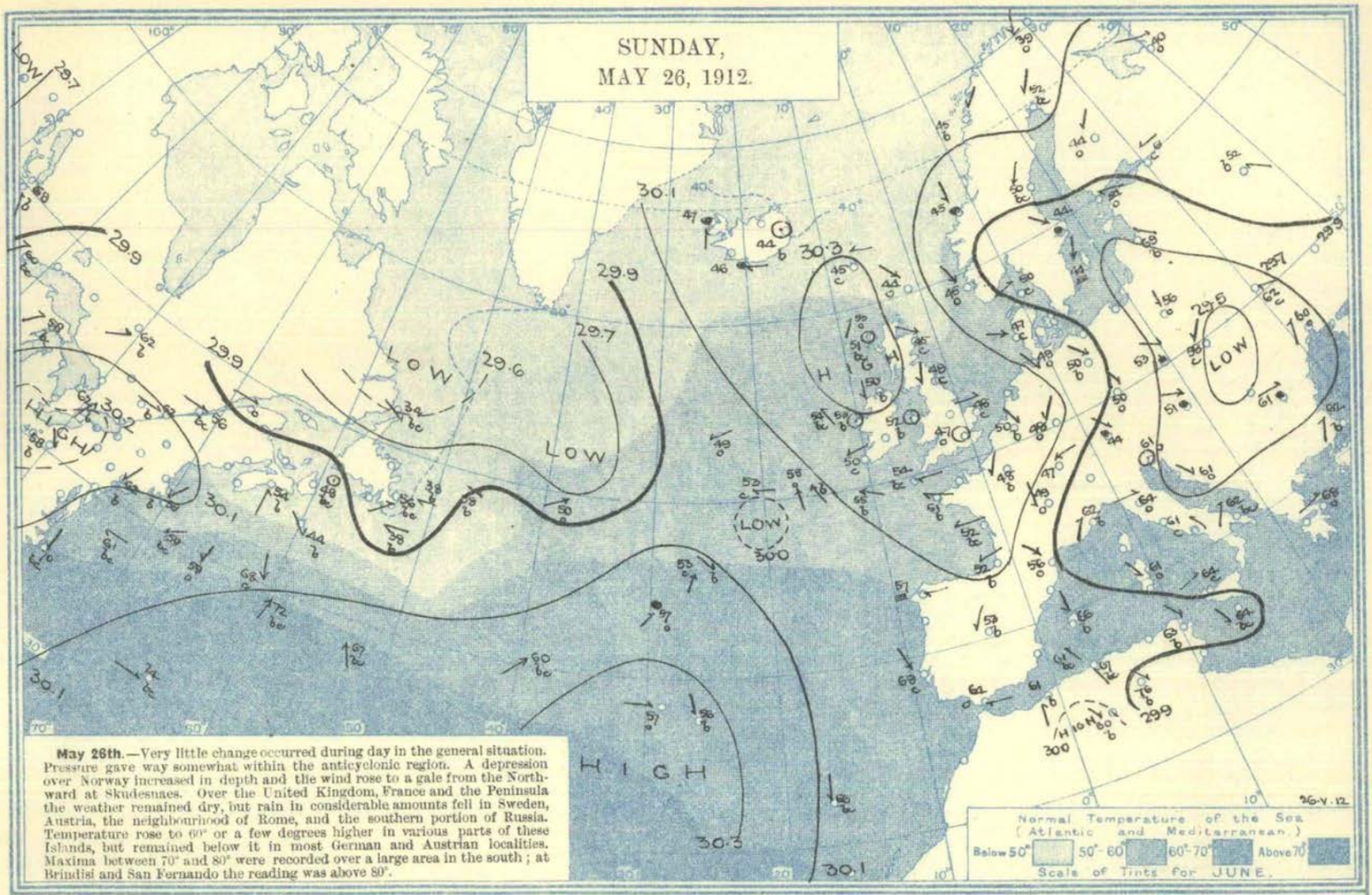
0. SCOTLAND, NORTH ...	71	25	*	*	*	*	414	+ 26	131	− 94	60	+ 2	12·65	+2·77	4·5	0·0	32	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	70	20	*	*	*	*	531	+ 68	176	− 66	47	− 2	5·17	−1·10	5·0	+0·1	36	+ 1
2. ENGLAND, N.E	78	26	*	*	*	*	606	+134	102	− 72	38	− 6	5·16	+0·07	5·0	−0·2	36	− 2
3. ENGLAND, EAST ...	82	26	*	*	*	*	749	+148	67	−115	38	− 3	3·93	−1·02	5·7	+0·3	41	+ 2
4. MIDLAND COUNTIES ...	81	24	*	*	*	*	725	+110	101	− 96	38	− 3	6·26	+0·73	4·8	−0·1	35	− 1
5. ENGLAND, S.E.	77	23	*	*	*	*	766	+117	48	− 74	35	− 4	4·96	−0·20	6·0	+0·5	44	+ 4
Western.																		
6. SCOTLAND, WEST ...	71	24	*	*	*	*	559	+ 56	76	− 87	51	+ 2	8·26	−0·71	5·0	−0·1	36	− 1
7. ENGLAND, N.W.	70	25	*	*	*	*	614	+ 84	67	− 68	42	− 3	6·42	−0·20	5·1	+0·1	37	+ 1
8. ENGLAND, S.W.	73	24	*	*	*	*	697	+ 83	30	− 72	44	0	8·04	+0·96	5·0	−0·5	37	− 4
9. IRELAND, NORTH ...	69	29	*	*	*	*	586	+ 51	66	− 62	49	− 4	6·52	−0·91	4·3	−0·6	31	− 4
10 IRELAND, SOUTH ...	71	29	*	*	*	*	712	+ 79	37	− 57	55	+ 7	7·05	−0·92	5·2	−0·1	38	− 1
11. ENGLISH CHANNEL ...	76	35	*	*	*	*	876	+176	3	− 27	49	+ 3	7·17	+1·16	6·3	−0·2	46	− 2

THE YEAR.—Aggregates, &c., for the Period of 22 Weeks, December 31st, 1911, to June 1st, 1912.

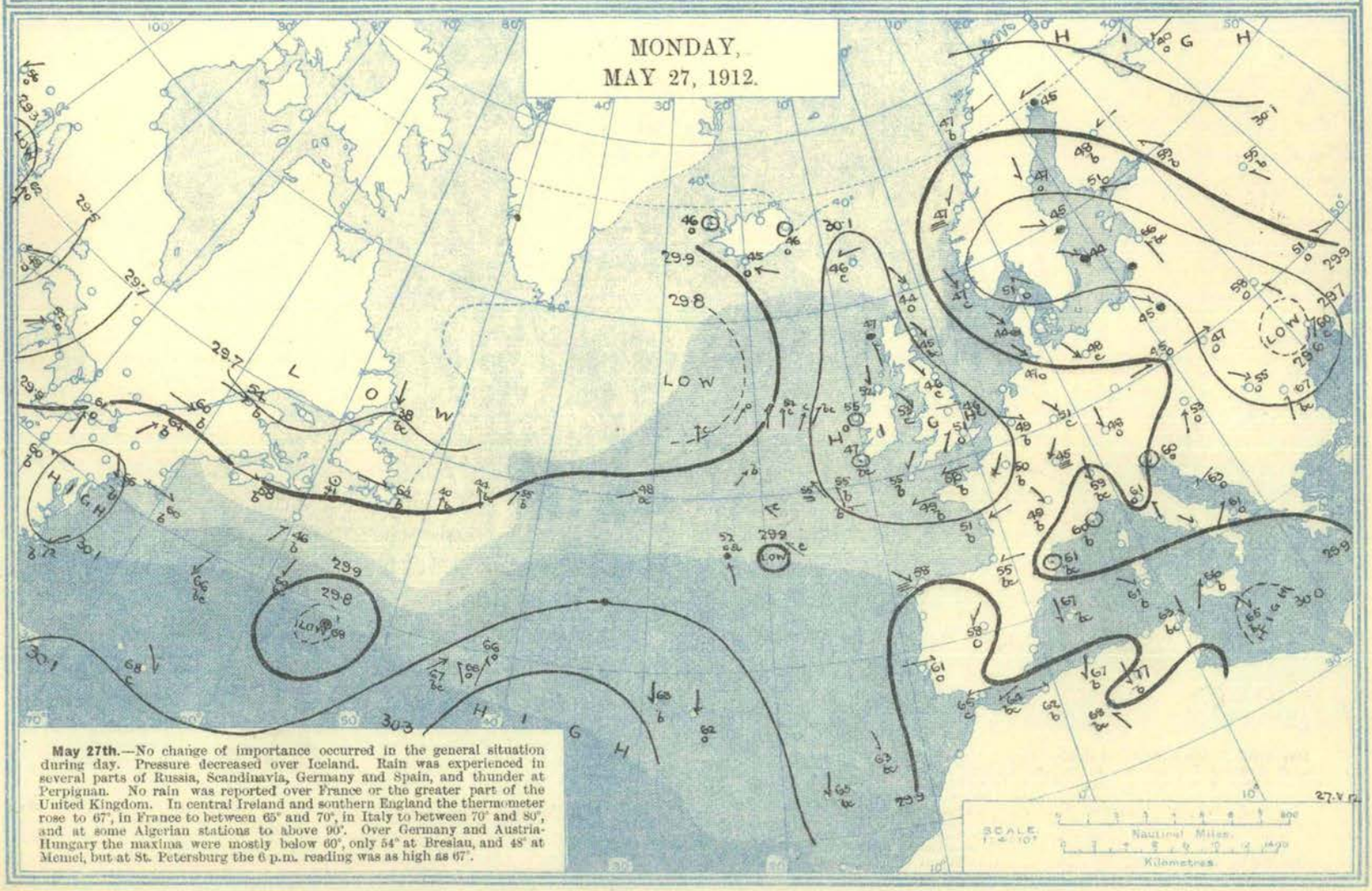
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	488	+ 40	427	−128	104	0	20·22	−0·62	3·3	+0·1	28	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	70	−5	*	*	*	*	606	+ 75	519	−100	90	+ 6	10·56	−0·72	3·6	−0·1	31	− 1
2. ENGLAND, N.E.	78	10	*	*	*	*	707	+155	373	−102	79	+ 2	9·66	+1·18	3·5	−0·4	30	− 3
3. ENGLAND, EAST ...	82	14	*	*	*	*	881	+190	274	−247	77	+ 2	8·22	−0·10	3·9	−0·2	34	− 2
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	852	+133	373	−160	76	+ 2	11·98	+2·27	3·4	−0·3	29	− 2
5. ENGLAND, S.E.	77	13	*	*	*	*	921	+154	218	−163	74	+ 3	10·78	+1·17	4·1	0·0	35	0
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	650	+ 58	329	− 96	90	+ 1	17·01	−0·81	3·6	−0·1	30	− 2
7. ENGLAND, N.W.	70	7	*	*	*	*	738	+114	298	− 88	81	0	12·26	−0·03	3·7	0·0	32	0
8. ENGLAND, S.W.	73	9	*	*	*	*	875	+110	189	−112	90	+10	16·22	+2·14	3·7	−0·4	31	− 4
9. IRELAND, NORTH ...	69	15	*	*	*	*	745	+ 85	237	−108	83	−12	13·21	−0·75	3·3	−0·3	28	− 3
10. IRELAND, SOUTH ...	71	13	*	*	*	*	921	+102	167	− 92	101	+15	15·90	+0·38	3·9	−0·1	33	− 2
11. ENGLISH CHANNEL ...	76	27	*	*	*	*	1,197	+278	44	− 65	88	+ 1	13·50	+1·58	4·6	−0·3	39	− 3

NOTES ON TABLE IV.

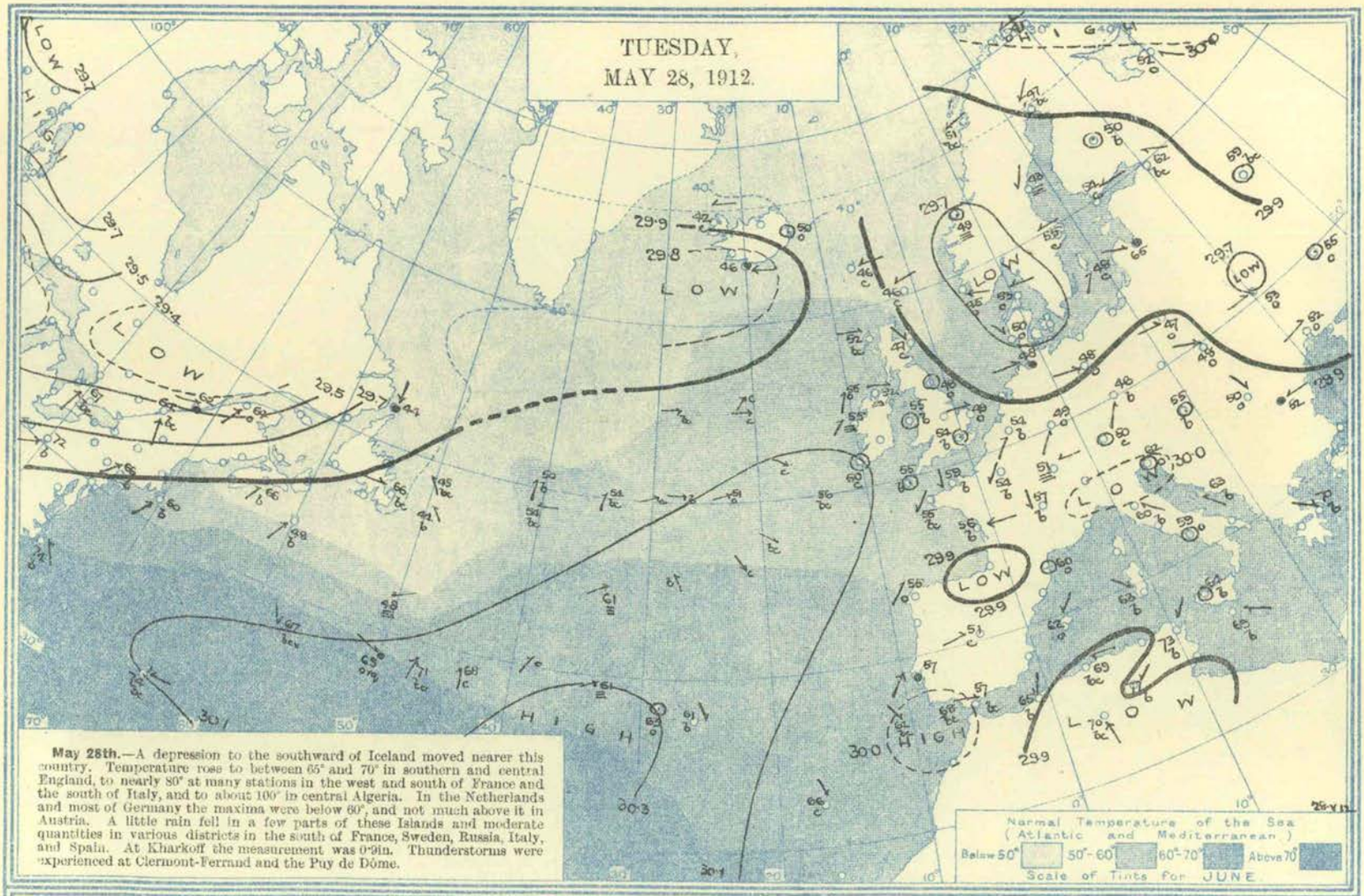
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



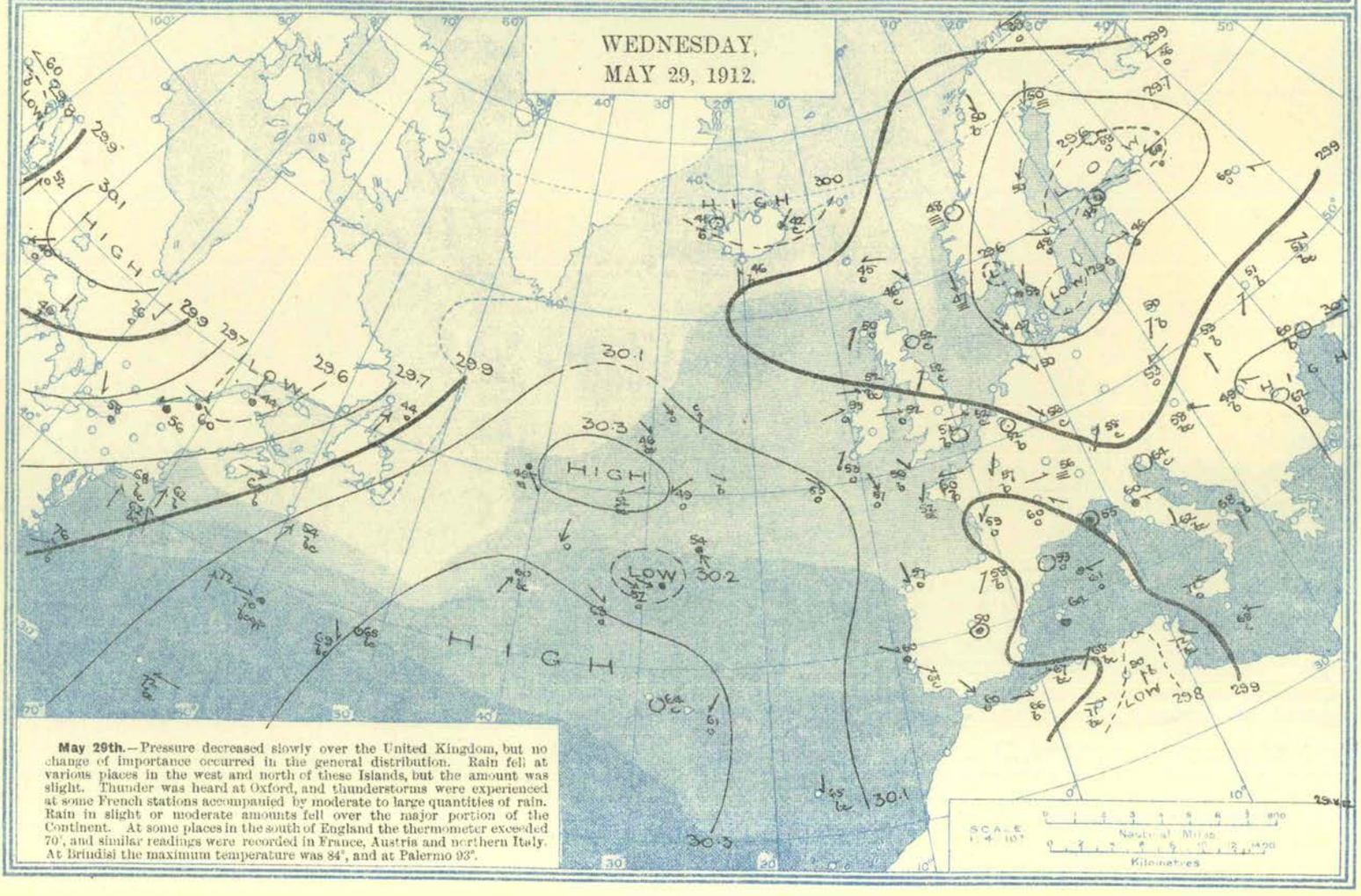
May 26th.—Very little change occurred during day in the general situation. Pressure gave way somewhat within the anticyclonic region. A depression over Norway increased in depth and the wind rose to a gale from the Northward at Skudesnaes. Over the United Kingdom, France and the Peninsula the weather remained dry, but rain in considerable amounts fell in Sweden, Austria, the neighbourhood of Rome, and the southern portion of Russia. Temperature rose to 60° or a few degrees higher in various parts of these Islands, but remained below it in most German and Austrian localities. Maxima between 70° and 80° were recorded over a large area in the south; at Brindisi and San Fernando the reading was above 80°.



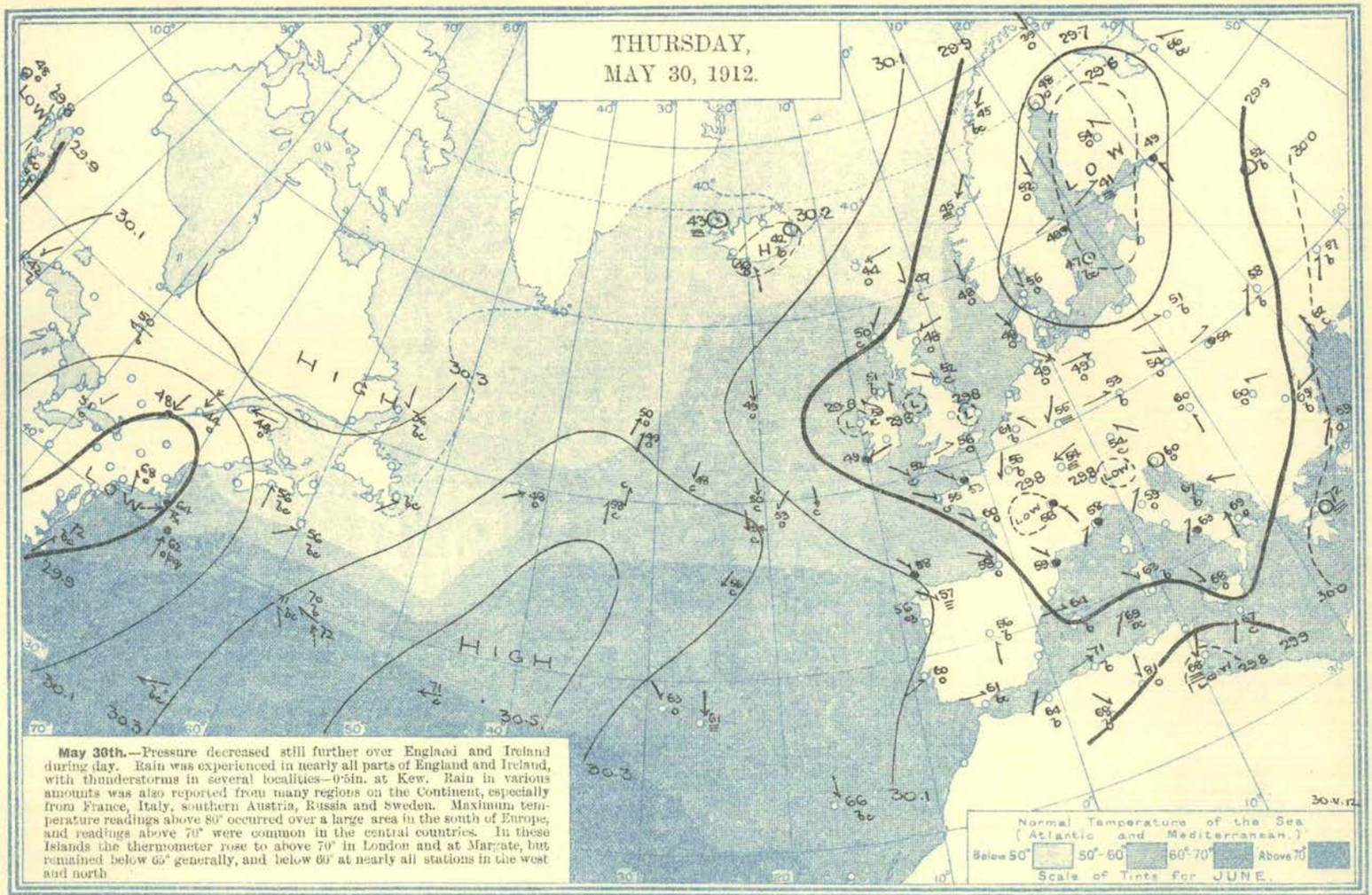
May 27th.—No change of importance occurred in the general situation during day. Pressure decreased over Iceland. Rain was experienced in several parts of Russia, Scandinavia, Germany and Spain, and thunder at Perpignan. No rain was reported over France or the greater part of the United Kingdom. In central Ireland and southern England the thermometer rose to 67°, in France to between 65° and 70°, in Italy to between 70° and 80°, and at some Algerian stations to above 90°. Over Germany and Austria-Hungary the maxima were mostly below 60°, only 54° at Breslau, and 48° at Memel, but at St. Petersburg the 6 p.m. reading was as high as 67°.



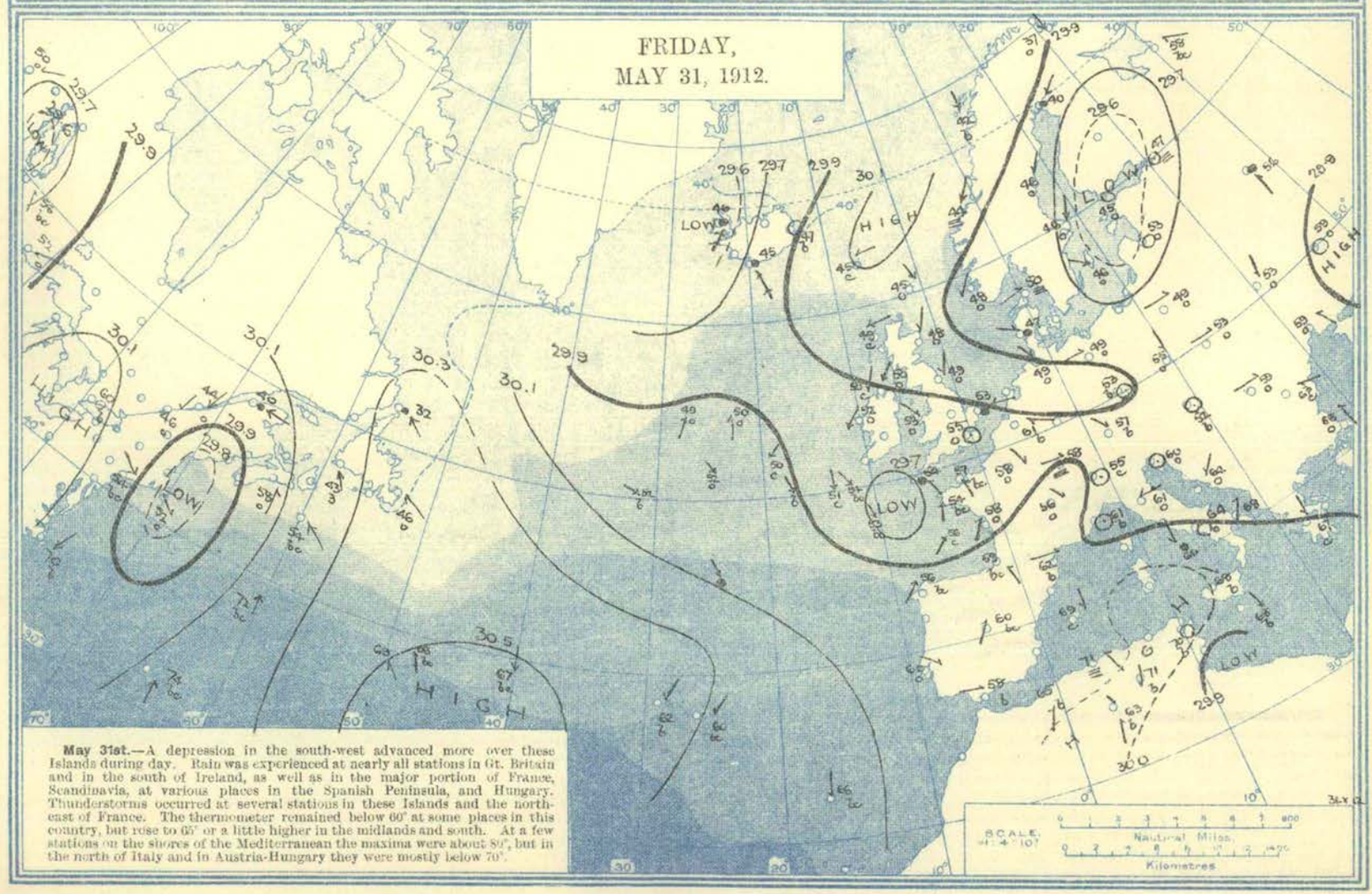
May 28th.—A depression to the southward of Iceland moved nearer this country. Temperature rose to between 65° and 70° in southern and central England, to nearly 80° at many stations in the west and south of France and the south of Italy, and to about 100° in central Algeria. In the Netherlands and most of Germany the maxima were below 60°, and not much above it in Austria. A little rain fell in a few parts of these Islands and moderate quantities in various districts in the south of France, Sweden, Russia, Italy, and Spain. At Kharkoff the measurement was 0·9in. Thunderstorms were experienced at Clermont-Ferrand and the Puy de Dôme.



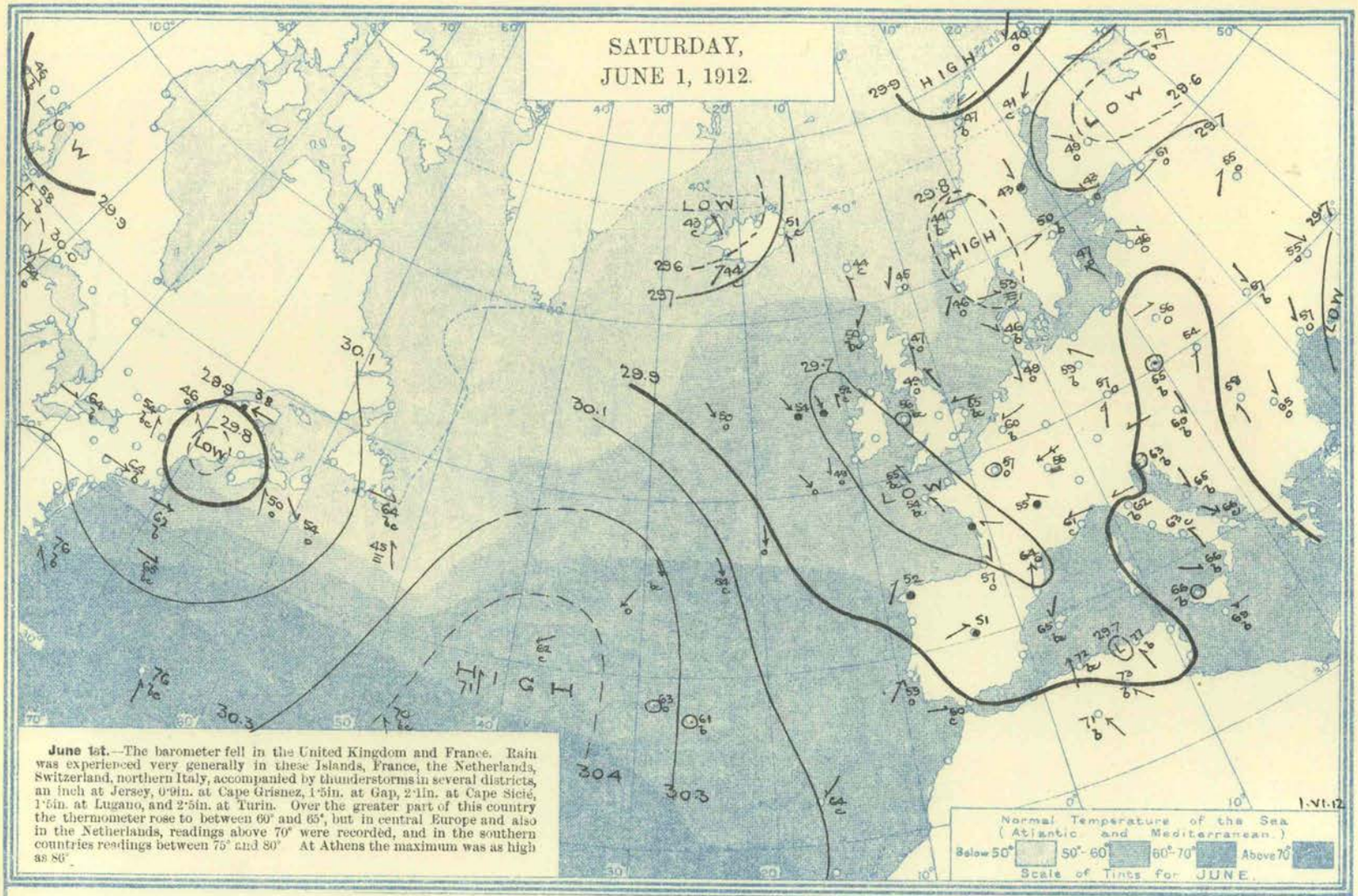
May 29th.—Pressure decreased slowly over the United Kingdom, but no change of importance occurred in the general distribution. Rain fell at various places in the west and north of these Islands, but the amount was slight. Thunder was heard at Oxford, and thunderstorms were experienced at some French stations accompanied by moderate to large quantities of rain. Rain in slight or moderate amounts fell over the major portion of the Continent. At some places in the south of England the thermometer exceeded 70°, and similar readings were recorded in France, Austria and northern Italy. At Brindisi the maximum temperature was 84°, and at Palermo 93°.



May 30th.—Pressure decreased still further over England and Ireland during day. Rain was experienced in nearly all parts of England and Ireland, with thunderstorms in several localities—0·5in. at Kew. Rain in various amounts was also reported from many regions on the Continent, especially from France, Italy, southern Austria, Russia and Sweden. Maximum temperature readings above 80° occurred over a large area in the south of Europe, and readings above 70° were common in the central countries. In these Islands the thermometer rose to above 70° in London and at Margate, but remained below 65° generally, and below 60° at nearly all stations in the west and north

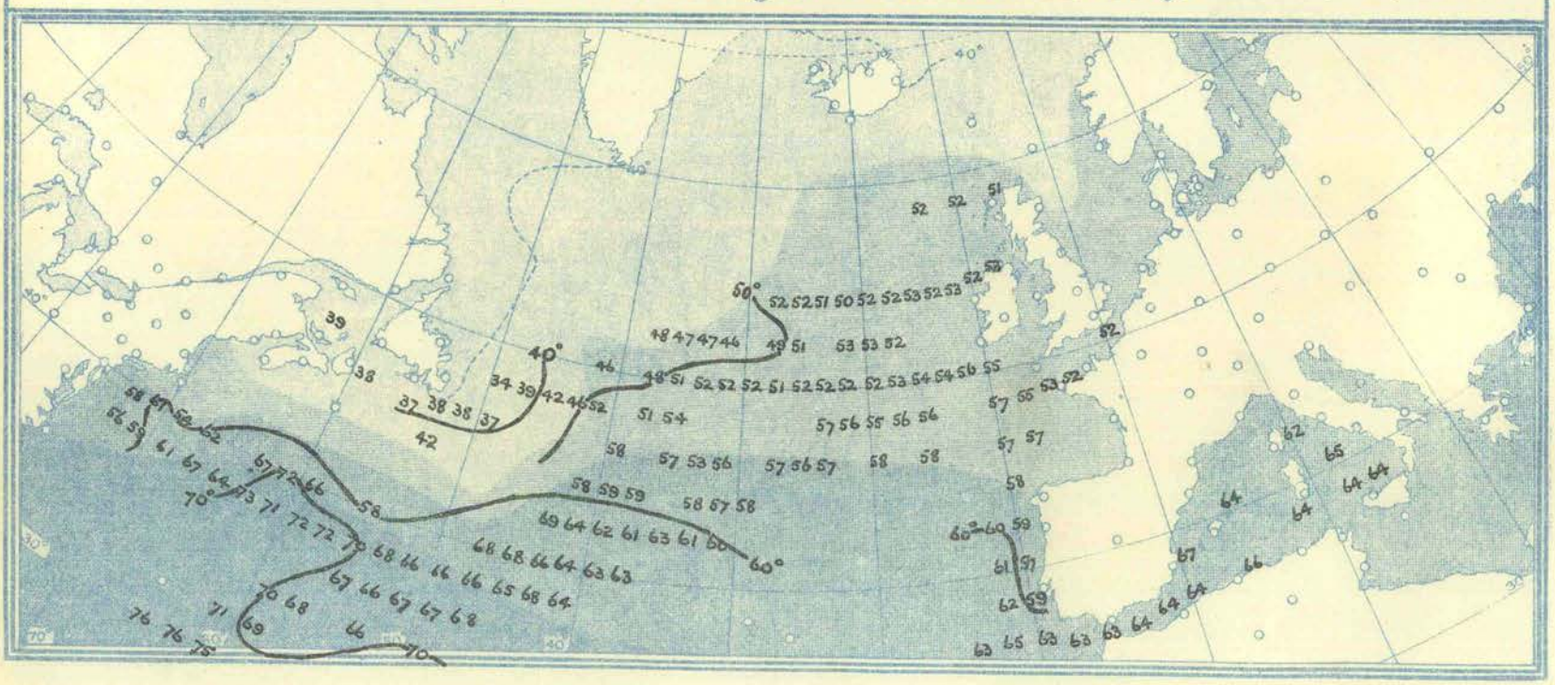


May 31st.—A depression in the south-west advanced more over these Islands during day. Rain was experienced at nearly all stations in Gt. Britain and in the south of Ireland, as well as in the major portion of France, Scandinavia, at various places in the Spanish Peninsula, and Hungary. Thunderstorms occurred at several stations in these Islands and the north-east of France. The thermometer remained below 60° at some places in this country, but rose to 65° or a little higher in the midlands and south. At a few stations on the shores of the Mediterranean the maxima were about 80°, but in the north of Italy and in Austria-Hungary they were mostly below 70°.



June 1st.—The barometer fell in the United Kingdom and France. Rain was experienced very generally in these Islands, France, the Netherlands, Switzerland, northern Italy, accompanied by thunderstorms in several districts, an inch at Jersey, 0·9in. at Cape Grisnez, 1·5in. at Gap, 2·1in. at Cape Sicié, 1·5in. at Lugano, and 2·5in. at Turin. Over the greater part of this country the thermometer rose to between 60° and 65°, but in central Europe and also in the Netherlands, readings above 70° were recorded, and in the southern countries readings between 75° and 80° At Athens the maximum was as high as 86°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 1ST June, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); → = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 46° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* No. 23. TWENTY-THIRD WEEK, SUNDAY, JUNE 2ND, TO SATURDAY, JUNE 8TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The general condition continued very unsettled, and except in the extreme north and north-west of the Kingdom rain was experienced very frequently, sometimes in considerable amounts. Thunderstorms occurred in some parts of England on every day, but were most widespread on the 8th; in Ireland they were also experienced on the 8th.

Temperature was below the normal, the deficit being 1° in Scotland N. and W. and more than 2° in several English districts and in Ireland S. The highest of the maxima were recorded on rather variable dates, but generally on the 6th, 7th, or 8th. In England S.W. the thermometer touched 71°, in England E. 70°, while the lowest values recorded were 64° and 63° respectively in Scotland E. and N. The lowest of the minima, which also occurred on various dates, ranged from 32° in Scotland E. and 33° in Ireland S. to 42° in England N.E., and to 45° in the English Channel. The lowest grass readings reported were 29° at Balmoral, 31° at Greenwich, and 32° at Crathes, Newton Rigg, and Aberystwyth. At all stations except Canterbury and Guernsey the temperature of the soil at a depth of 1 foot was below the normal, more than 3° in several parts of Great Britain. At a depth of 4 feet it was also below it in various parts of the Kingdom.

Mean Temperature of the Sea. The water was warmer for the time of the year on most parts of the coast, but colder than during the corresponding week of last year except at Plymouth, Salcombe and Cleggan. The means for the week ranged from 59·6° at Margate, and 58° at Eastbourne to 48° at Lerwick, and to 47° at Burnmouth.

Rainfall exceeded the average except in Scotland N., the excess being large in most districts. Falls of an inch or more within 24 hours occurred at Guernsey and Salcombe on the 2nd, at West Witton and Newton Rigg on the 3rd, at Spurn Head on the 3rd, and at Kilkenny on the 8th. At this last station as much as 1·5 in. was measured. The largest total falls for the week were 2·85 in. at Jersey and 3·20 in. at Harrogate. At some places in Shetland and the Hebrides the total fall was less than 0·2 in., and at Blacksod Point the week was rainless.

Bright Sunshine was less than the normal, the deficiency being very considerable in almost all districts. In Scotland E. the mean daily duration was only 0·5 hr. and the percentage of the possible duration 3. In the English Channel, where the daily mean was about 6¾ hr., the percentage of the possible duration was 43, but elsewhere it decreased to 32 in England S.E. and England S.W., 16 in the Midland Counties and Scotland W., and to 14 and 13 repectively in England N.E. and Scotland N.

Barometer and Wind. Pressure was low throughout the period over these Islands, but the various depressions, which underwent considerable modification in form from day to day, were of little intensity and the winds were generally light or moderate in force. On Tuesday, however, the North-Easterly current prevalent in the north blew a strong breeze or high wind on the most northern and north-western coasts of Scotland, and at the same time the South-Westerly wind, which was the prevailing current on the south and south-west coasts, increased to a fresh or strong breeze in the Channel.

THE WEEK.

For explanation of the terms "Unusual" &c., *see* p. 91.		DISTRICTS OF THE BRITISH ISLES.												
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Heavy	Very heavy	Heavy	Very heavy	Very heavy	Heavy	Heavy	Very heavy	Moderate	Heavy	Very heavy
	Sunshine ...	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 1 week from June 2nd, 1912.	Warmth ...	0 * 0	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1
	Rainfall ...	0 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0	1 * 0
	Sunshine ...	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(24855—24.) Wt. 173—814. 450. 6/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	55	6, 8	43	2nd	52·7	45·4	48·8	—	48	0	•	•	50·0	•	•	•	2	0·13	—	5·5	—	30	—	*Baltasound.*
a Lerwick	54	6, 8	44	2, 6	51·4	45·0	48·0	+ 0·3	42	0	•	•	•	•	•	•	2	0·18	—	1·6	- 3·7	9	-21	Deerness.
a, Islands .. *a* Stornoway	57	2, 3	46	4, 8	54·3	46·9	50·3	+ 0·1	58	0	•	•	•	•	•	•	2	0·43	- 0·10	2·9	- 3·3	17	-19	Stornoway.
a Castlebay, Barra Isd. ..	60	3, 6	48	2, 5, 8	58·1	48·6	53·0	- 0·5	77	0	•	•	•	•	•	•	2	0·19	—	7·5	—	43	—	*Castlebay.*
a Wick	54	8th	45	4th	50·7	46·1	48·2	- 2·0	43	0	•	•	•	•	•	•	3	0·22	- 0·20	•	•	•	•	
p Strathpeffer ..	59	7th	39	4th	56·3	46·1	50·8	- 1·0	62	0	•	•	•	•	•	•	5	0·85	+ 0·42	1·6	- 3·8	9	-22	Strathpeffer.
b, Mainland. *p* Glencarron ..	61	8th	44	4th	57·7	45·8	51·3	+ 0·6	65	0	•	•	•	•	•	•	4	0·49	- 0·48	•	•	•	•	
p Fort Augustus ..	56	3, 8	47	3, 4	54·4	48·1	51·0	- 0·9	63	0	•	•	•	•	•	•	5	0·73	+ 0·26	2·7	- 1·8	16	-10	Fort Augustus.
p Fort William ..	63	3, 8	45	7, 8	59·4	47·3	52·9	- 0·1	76	0	•	•	•	•	•	•	2	0·33	- 0·50	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle .. S	61	3th	40	4th	54·4	46·7	50·3	- 2·0	58	0	0	32	50·9	-3·1	49·0	-0·8	—	—	—	0·2	—	1	—	Crathes S.
a Nairn	58	3th	43	6th	54·0	45·7	49·6	- 2·8	53	0	•	•	•	•	•	•	4	0·64	+ 0·16	0·5	—	3	—	*Gordon Castle.*
a Aberdeen ..	58	3, 7	46	4th	54·4	47·7	50·8	- 0·9	62	0	•	•	•	•	49·0	-0·1	4	0·40	- 0·03	0·7	- 5·5	4	-32	Nairn.
a Balmoral ..	63	4th	32	4th	58·0	41·7	49·3	- 0·9	52	1	29	•	•	•	•	•	4	0·20	- 0·32	•	•	•	•	Aberdeen.
p Crieff	64	7th	44	4th	57·6	46·6	51·7	- 2·3	68	0	•	•	•	•	•	•	4	0·75	+ 0·13	0·4	—	2	—	Balmoral.
a Leith	63	7th	48	2, 3, 4, 5	54·0	48·7	51·2	- 2·4	64	0	•	•	•	•	•	•	6	0·77	+ 0·37	•	•	•	•	Balruddery.
p West Linton ..	62	7th	45	2, 4, 6, 8	53·1	45·3	48·2	- 1·8	48	0	0	41	•	•	•	•	5	1·44	—	0·7	•	4	•	*West Linton.*
p Marchmont ..	58	7th	41	2nd	52·0	45·7	48·6	- 2·9	46	0	0	46	51·0	-3·9	•	•	5	1·15	+ 0·62	1·0	- 5·0	6	-29	Marchmont.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	59	7th	47	2, 6	55·1	47·7	51·1	- 0·9	64	0	0	42	51·9	-3·6	50·5	-0·7	5	1·13	+ 0·66	1·7	—	10	—	Cockle Park.
a Shields	62	7th	46	6th	55·1	46·9	50·7	- 1·3	61	0	•	•	•	•	•	•	5	1·95	+ 1·52	•	•	•	•	*Newcastle.*
a Durham	63	7th	43	7th	55·1	46·7	50·6	- 2·5	60	0	0	37	•	•	•	•	6	1·65	+ 1·23	1·4	- 4·2	8	-25	Durham.
a, North .. *p* Rounton	64	7th	42	7th	56·2	46·6	51·1	- 0·9	64	0	0	38	54·3	•	•	•	5	1·65	+ 1·19	•	•	•	•	Rounton.
a West Witton ..	65	7th	41	7th	57·4	45·7	51·1	—	64	0	•	•	53·2	•	49·2	•	6	2·38	—	•	•	•	•	*West Witton.*
p Scarborough ..	62	7th	46	2, 4	56·1	47·7	51·6	- 1·7	67	0	•	•	•	•	•	•	6	1·50	+ 1·07	2·1	—	13	—	Scarborough.
p York	66	7th	45	7th	59·9	48·3	53·7	- 1·5	82	0	•	•	54·2	-1·1	51·7	+0·7	7	1·78	+ 1·31	2·6	- 3·2	16	-19	York.
a Spurn Head	62	5th	46	6th	57·3	48·1	52·4	- 1·6	73	0	0	37	54·1	-1·8	50·7	+0·2	6	1·74	+ 1·40	2·2	—	13	—	*Hull.*
b, South .. *a* Lincoln	65	2, 7	45	7th	61·4	48·3	54·4	- 1·5	87	0	•	•	54·2	-3·0	51·9	+0·1	6	1·07	+ 0·63	•	•	•	•	Lincoln.
a Fulbeck	64	7th	42	6th	60·9	46·7	53·3	- 1·9	79	0	0	40	56·9	-3·5	52·8	-0·4	7	0·87	+ 0·43	3·1	—	19	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·8	—	17	—	Skegness.
3. ENGLAND, E.											0	45	57·6	-1·4	53·8	-0·2	—	—	—	*4·4*	—	*27*	—	*Lowestoft.*
p Cromer	65	2nd	46	6th	60·0	48·3	53·7	- 0·3	82	0	•	•	•	•	•	•	7	1·10	—	2·7	—	17	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	—	•	—	Hillington.
a, North .. *a* Yarmouth ..	66	6th	48	6th	60·4	50·4	55·1	+ 0·9	92	0	•	•	58·4	-3·3	55·3	-1·0	7	1·01	+ 0·61	3·9	—	24	—	Yarmouth.
a Norwich	67	2nd	45	6th	63·9	49·4	56·2	+ 1·7	99	0	0	40	57·9	•	•	•	6	0·91	—	*2·4*	—	*15*	—	*Norwich.*
p Gelderston ..	68	6th	46	6th	62·7	49·6	55·7	+ 1·1	96	0	•	•	•	•	•	•	5	0·94	+ 0·52	3·7	- 3·4	23	-21	Gelderston.
p Cambridge	68	6th	42	3rd	63·3	47·0	54·6	- 1·5	88	0	0	37	57·6	-1·4	55·2	+0·7	5	1·49	+ 1·02	2·8	- 3·9	17	-24	Cambridge.
a Felixstowe ..	64	6th	47	5th	61·0	50·4	55·3	+ 0·3	93	0	•	•	•	•	•	•	5	0·63	—	*4·4*	—	*27*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	65	6th	47	3, 5	61·6	50·0	55·4	+ 0·7	94	0	0	37	56·6	-1·5	54·7	-0·3	4	0·53	—	4·0	—	25	—	Clacton.
a Rothamsted	67	6th	40	3rd	62·1	46·9	54·0	- 0·9	84	0	•	•	•	•	•	•	4	1·20	+ 0·74	3·3	- 3·2	20	-20	Rothamsted.
a Shoeburyness ..	67	6th	47	5th	62·7	50·0	55·9	- 1·7	97	0	0	39	59·0	-1·5	•	•	*4*	*0·56*	+ *0·20*	*5·4*	—	*34*	—	*Southend.*
p Tottenham ..	70	6th	44	3rd	63·6	49·3	56·0	- 0·3	98	0	0	41	•	•	56·5	+1·4	5	1·20	—	3·4	—	21	—	Tottenham.
4. MIDLAND COUNTIES.											0	40	53·7	-3·3	50·0	+0·2	—	—	—	*1·9*	—	*11*	—	*Huddersfield.*
a Harrogate	64	7th	43	7th	56·4	46·3	51·0	- 1·9	63	0	0	39	52·4	-0·8	51·0	+0·2	5	3·20	+ 2·68	2·7	—	16	—	Harrogate.
a Bawtry	67	7th	41	7th	61·0	46·9	53·5	- 1·9	81	0	0	35	55·3	•	52·8	•	6	1·31	+ 0·90	2·1	- 3·4	13	-20	Worksop.
p Buxton	62	7th	43	4, 6	57·7	45·3	51·1	- 0·5	64	0	0	37	53·2	-2·1	49·3	+0·1	*7*	*1·00*	+ *0·29*	*2·4*	—	*15*	—	*Buxton.*
a East .. *a* Nottingham	65	7th	41	7th	62·0	47·0	54·0	- 1·3	84	0	0	38	54·9	-2·5	52·7	+0·1	7	1·11	+ 0·67	2·5	—	15	—	Nottingham.
p Birmingham, Edgbsn.	61	4, 7	45	3, 5	57·7	47·4	52·2	- 2·7	71	0	0	33	51·0	-1·7	49·6	+1·1	7	1·86	+ 1·36	1·2	—	7	—	Birmingham.
a Raunds	66	6th	42	3, 7	62·3	46·0	53·6	- 1·7	81	0	0	34	56·0	•	52·4	•	7	2·31	—	•	•	•	•	Raunds.
a Oxford	66	6th	42	3rd	61·4	47·6	54·0	- 2·0	84	0	0	—	•	•	•	•	7	1·32	+ 0·87	3·1	- 3·4	19	-21	Oxford.
											0	39	52·4	-2·3	49·9	+0·5	—	—	—	1·5	—	9	—	Sheffield.
a Cheadle	67	5th	45	3, 8	64·0	48·7	55·8	+ 2·2	97	0	0	37	•	•	•	•	6	1·29	+ 0·75	•	•	•	•	Cheadle.
p Shrewsbury ..	66	7th	43	7th	60·1	46·9	53·0	- 2·6	77	0	0	38	•	•	•	•	6	1·71	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	66	6th	43	7th	61·6	46·6	53·6	- 2·3	81	0	0	40	•	•	•	•	7	1·28	+ 0·77	•	•	•	•	Hereford.
a Cirencester	64	6th	38	3rd	59·4	45·1	51·8	- 2·9	69	0	0	39	55·1	•	53·0	•	5	1·46	+ 0·95	3·8	- 2·9	23	-18	Cirencester.
a Bath	66	6th	40	3rd	61·9	47·1	54·0	- 2·1	84	0	•	•	57·2	-1·7	55·3	+0·5	6	1·34	+ 0·83	3·7	—	23	—	Bath.
5. ENGLAND, S.E.											0	39	59·1	+1·2	56·1	+1·5	—	—	—	•	•	•	•	Canterbury.
p Kew	66	6th	43	3rd	62·9	48·4	55·2	- 1·3	92	0	0	34	56·9	-1·1	54·0	+0·9	5	1·43	+ 0·98	4·6	- 2·0	29	-12	Kew.
a Marlborough ..	64	6th	37	3rd	59·1	44·7	51·4	- 2·8	66	0	0	32	•	•	•	•	6	1·70	+ 1·20	3·0	- 3·1	19	-19	Marlborough.
a Margate	65	6th	50	3, 5, 7	62·7	51·0	56·4	+ 0·9	101	0	•	•	56·6	-1·5	53·7	-0·4	5	1·45	+ 1·06	3·8	- 2·6	24	-16	Margate.
a Wisley, Surrey ..	66	6th	40	3rd	61·7	47·3	54·0	- 2·8	84	0	0	34	57·6	-1·2	55·1	+0·7	5	1·21	—	5·5	—	34	—	Wisley
a Swarraton	64	6th	37	3rd	60·1	46·0	52·6	- 2·0	74	0	0	40	59·1	-1·8	55·9	+1·1	5	1·44	+ 0·94	6·2	—	39	—	Worthing.
a Tunbridge Wells ..	63	6th	43	7th	60·6	46·6	53·1	- 2·1	78	0	0	41	58·0	-2·8	•	•	6	1·21	+ 0·73	5·6	- 1·3	35	- 7	Tunbridge Wells.
a Dungeness	61	6, 8	48	3rd	60·0	50·7	55·0	- 0·3	91	0	0	41	•	•	•	•	5	1·39	+ 1·07	4·8	—	30	—	Littlestone.
p Hastings	62	8th	47	5th	60·0	50·1	54·7	- 1·1	89	0	0	44	58·9	•	55·9	•	5	1·28	+ 0·88	*5·0*	- *2·7*	*31*	- *1·7*	*Hastings.*
p Southampton ..	65	6, 7	44	3rd	61·4	48·0	54·2	- 3·6	85	0	0	39	•	•	•	•	5	1·39	+ 0·95	6·2	- 1·0	39	- 6	Southampton.
a Ventnor	63	5, 8	47	5th	60·4	50·3	55·0	- 1·5	91	0	•	•	•	•	•	•	5	1·22	+ 0·81	6·2	- 0·7	39	- 5	Ventnor.
											0	38	59·3	-1·0	56·8	+0·9	—	—	—	7·2	—	*45*	—	*Portsmouth.*
											•	•	57·7	•	55·5	•	—	—	—	5·5	- 1·8	34	-11	Eastbourne.
											•	•	57·4	•	56·4	•	—	—	—	*6·9*	—	*43*	—	*Bournemouth.*
LONDON.											0	43	•	•	56·8	•	—	—	—	*4·7*	- *2·7*	*29*	- *17*	*Brighton.*
a Westminster	65	6th	47	3, 5	62·4	50·1	55·8	- 0·9	97	0	0	42	•	•	•	•	6	1·11	+ 0·66	5·2	- 0·4	32	- 3	*Westminster.*
a Greenwich	70	6th	42	3rd	65·7	46·3	55·3	- 1·8	93	0	0	31	•	•	•	•	5	0·84	+ 0·39	5·8	- 0·6	36	- 4	*Greenwich.*
a Hampstead	65	6th	44	5th	63·0	47·7	54·4	—	87	0	0	36	•	•	•	•	6	1·44	—	*4·1*	—	*26*	—	*Hampstead.*
a Camden Square ..	71	6th	45	3rd	65·4	48·7	56·5	—	102	0	0	42	•	•	•	•	6	1·22	—	3·6	—	22	—	*Camden Square*
6. *a*, SCOTLAND, W.																							
a Poltalloch .. S	65	5th	47	7th	60·4	48·9	54·3	+ 0·5	86	0	•	•	•	•	•	•	4	0·66	0·00	•	•	•	•	
p Glasgow	63	7th	47	3, 7	56·9	48·7	52·5	- 0·9	74	0	0	40	•	•	•	•	4	0·68	+ 0·11	0·9	- 4·5	5	-27	Glasgow.
p Rothesay ..	69	7th	44	7th	59·4	47·9	53·3	- 0·4	79	0	•	•	•	•	51·0	-0·3	4	1·01	+ 0·35	•	•	•	•	
a Kilmarnock ..	65	7th	42	7th	58·4	48·0	52·8	- 1·0	76	0	•	•	•	•	•	•	2	0·46	—	*1·9*	—	*11*	—	*Kilmarnock.*
a Colmonell ..	62	7th	38	7th	59·7	47·4	53·1	- 0·8	78	0	0	35	•	•	•	•	3	1·02	+ 0·45	•	•	•	•	
p Dumfries ..	65	7th	47	7th	57·7	49·4	53·3	- 1·4	79	0	0	40	54·9	•	52·7	•	5	1·49	+ 0·96	*1·5*	—	*9*	—	*Dumfries.*
p Cally, Gatehouse	62	8th	39	7th	58·7	47·0	52·4	- 1·2	73	0	•	•	•	•	•	•	4	1·24	+ 0·58	•	•	•	•	
b I. OF MAN.																							
p Douglas	63	7th	43	5th	57·9	47·9	52·6	- 0·7	74	0	0	38	•	•	•	•	5	0·29	- 0·30	4·4	- 2·9	26	-18	Douglas.
											0	40	53·2	-2·7	49·9	-1·0	—	—	—	*2·0*	—	*12*	—	*Burnley.*
											0	39	•	•	•	•	—	—	—	3·1	—	19	—	Hoylake.
7. *a*, ENGLAND, N.W.																							
p Aspatria	64	7th	44	7th	57·9	47·9	52·6	- 0·7	74	0	0	37	55·4	•	51·0	•	7	1·34	+ 0·80	2·6	- 4·2	15	-25	Aspatria.
p Newton Rigg	67	7th	39	7, 8	59·4	44·9	51·7	- 1·1	68	0	0	32	54·5	-1·9	50·4	-0·2	5	1·76	+ 1·24	1·9	—	11	—	Newton Rigg.
p Stonyhurst	66	7th	46	4, 7	58·1	48·0	52·7	- 1·5	75	0	0	39	•	•	•	•	6	1·23	+ 0·58	2·0	- 4·5	12	-27	Stonyhurst.
p Blackpool	62	7th	40	7th	58·0	46·9	52·1	- 2·4	71	0	•	•	•	•	•	•	6	0·99	+ 0·50	2·7	- 3·9	16	-24	Blackpool.
p Manchester (Whit Pk.)	62	6, 7	47	4, 7	58·9	49·2	53·7	—	82	0	•	•	•	•	•	•	6	0·91	—	*1·1*	—	*7*	—	*Whit Park.*
a Liverpool (Bidston) ..	61	7th	45	5th	56·9	48·9	52·6	- 1·9	74	0	•	•	•	•	•	•	6	0·94	+ 0·46	*2·8*	—	*17*	—	*Liverpool.*
a Hawarden Bridge ..	64	7th	44	4, 7	58·4	48·4	53·1	- 2·6	78	0	0	38	56·2	-3·7	54·0	-1·5	6	0·92	+ 0·48	*3·2*	- *3·9*	*19*	- *24*	*Southport.*
											0	46	54·5	-2·4	53·1	+0·8	—	—	—	*1·1*	—	*7*	—	*Manchester (City)*
b, NORTH WALES.																							
p Llandudno	63	5, 7	43	5th	59·4	47·0	52·8	- 2·2	76	0	•	•	•	•	•	•	6	0·87	+ 0·43	4·0	- 2·7	24	-17	Llandudno.
a Holyhead	60	7th	42	5th	56·1	48·1	51·8	- 2·2	69	0	•	•	•	•	•	•	5	0·98	+ 0·52	6·3	—	38	—	Aberdovey.
p Bettws-y-Coed ..	63	5th	38	5th	60·3	45·1	52·2	- 2·2	71	0	0	37	53·0	-2·2	51·0	+0·3	6	0·99	—	2·4	—	15	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	*	*	*	6·2	—	38	—	
a Llangammarch Wells	64	6th	35	5th	60·1	43·6	51·3	− 2·4	65	0	0	32	52·9	−2·5	50·1	−0·2	6	1·46	—	4·0	—	25	—	Aberystwyth.
a Pembroke	61	7, 8	45	5th	58·3	48·9	53·3	= 0·7	79	0	*	*	*	*	*	*	4	0·77	± 0·33	5·0	− 2·4	31	−15	Pembroke.
p Cardiff	65	6th	41	5th	60·7	46·9	53·3	− 3·4	79	0	0	35	57·7	−1·9	54·6	+0·9	5	1·51	+ 0·96	*4·7*	—	*29*	—	[Wells *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	65	6th	45	5th	60·6	48·9	54·3	− 2·4	86	0	0	41	*	*	*	*	5	1·27	+ 0·76	*3·8*	—	*24*	—	*Clifton.*
a Shaftesbury	62	6th	40	5th	57·7	45·0	50·9	− 2·5	62	0	*	*	56·1	*	*	*	6	1·75	+ 1·22	*	*	*	*	Shaftesbury.
a Arlington	64	8th	39	5th	58·7	45·3	51·5	− 2·1	67	0	*	*	56·4	*	*	*	4	1·55	+ 0·87	7·2	− 0·2	45	− 1	Newquay.
a Cullompton	67	6th	37	5th	61·9	46·0	53·4	− 2·4	80	0	0	34	57·6	*	*	*	7	1·88	+ 1·37	3·4	− 3·3	21	−20	Cullompton.
a Portland	60	5th	48	5th	58·1	51·1	54·4	− 0·8	87	0	*	*	*	*	*	*	5	1·31	—	*6·9*	—	*43*	—	*Weymouth.*
p Plymouth	71	6th	45	6th	60·2	49·6	54·5	− 2·2	88	0	*	*	58·6	−1·4	*	*	5	2·37	+ 1·89	5·4	− 1·8	34	−12	Plymouth.
p Falmouth	64	8th	44	4, 5	59·0	48·4	53·3	− 2·1	79	0	*	*	*	*	*	*	5	1·19	+ 0·67	4·6	− 3·1	29	−20	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	57	8th	46	3rd	54·4	47·4	50·7	− 1·8	61	0	*	*	*	*	*	*	3	0·87	+ 0·39	*	*	*	*	* *
a Blacksod Point ..	63	7th	39	3rd	58·9	49·3	53·8	+ 0·1	83	0	*	*	*	*	*	*	0	0·00	− 0·60	*	*	*	*	* *
p Markree Castle ..	65	5, 8	41	3, 8	61·6	45·1	52·8	− 0·2	76	0	0	33	57·4	*	52·3	*	3	0·48	− 0·15	5·9	+ 0·1	35	+ 1	Markree Castle.
a Birr Castle	65	6th	35	3rd	61·0	44·7	52·3	− 2·1	72	0	*	*	*	*	*	*	6	0·99	+ 0·48	*3·6*	− *2·1*	*22*	− *13*	*Birr Castle.*
b, East .. { *p* Armagh	62	6th	42	2nd	57·9	46·0	51·5	− 1·9	67	0	0	33	54·5	−2·6	52·0	−0·5	5	0·62	+ 0·06	2·1	− 3·7	13	−22	Armagh.
a Donaghadee	61	6th	48	4, 5	55·1	48·9	51·8	− 1·9	69	0	*	*	*	*	*	*	4	0·81	+ 0·29	*	*	*	*	* *
											0	39	56·7	−0·3	53·8	+0·5	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	34	*	*	*	*	—	—	—	3·4	− 3·2	21	−19	Phœnix Park.
a, East .. { *p* Dublin, City	62	6, 7, 8	47	3, 4	59·3	49·3	54·0	− 2·0	84	0	0	46	*	*	*	*	4	0·60	+ 0·16	*	*	*	*	Dublin City.
a Kilkenny	66	6th	38	3, 4	60·7	45·0	52·3	− 2·4	72	0	*	*	*	*	*	*	4	2·00	+ 1·47	*	*	*	*	* *
a Waterford	66	7th	39	4th	62·4	45·9	53·6	− 1·8	81	0	*	*	*	*	*	*	4	0·63	+ 0·08	*	*	*	*	* *
a Birr Castle	65	6th	35	3rd	61·0	44·7	52·3	− 2·1	72	0	*	*	*	*	*	*	6	0·99	+ 0·48	3·6	− 2·1	22	−13	Birr Castle.
a Foynes	64	6, 7	38	4th	61·3	45·9	53·1	− 2·2	78	0	*	*	*	*	*	*	6	1·76	+ 1·21	*	*	*	*	* *
b, West .. *a* Cahir													*	*	*	*	—	—	—	*	*	*	*	* *
a Killarney	68	6th	33	4th	63·8	43·4	52·9	− 1·8	76	0	*	*	*	*	*	*	5	1·37	+ 0·70	*	*	*	*	* *
a Valencia	63	5, 6, 7, 8	35	4th	60·1	45·0	52·0	− 3·1	70	0	*	*	*	*	*	*	3	0·62	− 0·11	7·6	+ 1·1	47	+ 7	Valencia.
a Roche's Point ..	63	5, 6, 7	39	4th	61·0	46·0	53·0	− 2·1	77	0	*	*	*	*	*	*	7	0·72	+ 0·09	5·6	—	35	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	63	7th	45	4th	58·9	48·4	53·3	− 2·4	79	0	*	*	*	*	*	*	4	1·29	+ 0·92	6·9	− 1·1	43	− 7	Scilly.
a Jersey, St. Aubins ..	65	6th	49	5th	60·9	51·3	55·8	− 1·3	97	0	*	*	*	*	*	*	7	2·85	+ 2·38	6·8	− 1·2	43	− 8	St. Heliers.
a Guernsey (Villa Carey)	64	6, 8	48	4, 5	60·0	50·4	54·9	− 1·5	90	0	0	42	59·7	0·0	58·1	+2·6	7	2·32	+ 1·82	6·7	− 1·7	42	−11	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·5 hrs. 40 °/₀; Ramsgate, 4·4 hrs. 27 °/₀; Rhyl, 3·9 hrs. 24 °/₀; Salcombe, 6·7 hrs. 42 °/₀; Tenby, 6·7 hrs. (−0·7) 41 °/₀ (− 5 °/₀); Torquay, 5·8 hrs. (−1·6) 36 °/₀ (− 10 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 8th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	48	48	48·0	−0·1	SCOTLAND, W. ..	{ Lamlash	54	49	51·4	−0·7
	{ Kirkwall	51	51	51·0	−0·5		{ Ballantrae	54	49	51·9	+0·2
	{ Wick	49	49	49·0	−0·7	ENGLAND, N.W. ..	Port Erin	54	50	51·3	+0·5
SCOTLAND, E. ..	{ Cromarty	54	50	52·5	+0·9	ENGLAND, S.W. ..	{ Newquay	55	55	55·0	−1·3
	{ Pennan Bay	51	49	50·2	−1·6		{ Scilly	58	55	56·4	—
	{ Aberdeen, Cove Bay	50	49	49·1	−0·3		{ Plymouth‡	58	56	56·6	+1·6
ENGLAND, N.E. ..	{ Burnmouth, Berwick	47	47	47·0	−2·0		{ Salcombe	60	54	56·0	+2·1
	{ Scarborough	53	50	51·5	+1·0	IRELAND, N.W. ..	{ Sheephaven	58	56	56·7	+1·8
ENGLAND, E. ..	{ Shipwash Lightship	56	53	55·2	+0·4		{ Teelin	57	54	55·5	−1·1
	{ Margate‡	62	58	59·6	+1·4	IRELAND, S.W. ..	{ Cleggan	56	55	55·8	+1·6
ENGLAND, S.E. ..	Eastbourne‡	59	57	58·0	+0·7		{ Seafield	60	53	56·8	+0·4
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground is recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-THIRD WEEK—June 2nd to June 8th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	63	39	54·9	46·5	50·4	− 0·9	59	− 8	0	− 1	3	0	0·46	−0·10	2·2	−5·5	13	−20
Eastern.																		
1. SCOTLAND, EAST ...	64	32	54·7	46·0	50·1	− 2·4	57	− 17	0	− 1	5	+ 3	0·76	+0·31	0·5	−5·6	3	−32
2. ENGLAND, N.E.	66	42	57·5	47·4	52·1	− 1·4	71	− 9	0	0	6	+ 3	1·48	+1·04	2·3	−3·9	14	−23
3. ENGLAND, EAST ...	70	40	62·2	48·9	55·1	− 0·3	92	− 2	0	0	5	+ 2	1·05	+0·52	3·4	−3·4	21	−21
4. MIDLAND COUNTIES ...	67	38	60·7	46·9	53·3	− 2·2	79	− 16	0	0	6	+ 4	1·65	+1·17	2·6	−3·6	16	−22
5. ENGLAND, S.E.	66	37	60·9	48·3	54·2	− 2·3	85	− 17	0	0	5	+ 2	1·37	+0·87	5·1	−1·8	32	−11
Western.																		
6. SCOTLAND, WEST ...	69	38	58·6	48·2	53·0	− 1·1	77	− 7	0	0	4	+ 1	0·86	+0·28	2·7	−4·0	16	−24
7. ENGLAND, N.W.	67	38	58·3	47·2	52·4	− 2·4	73	− 16	0	0	6	+ 3	1·11	+0·67	3·1	−3·8	19	−23
8. ENGLAND, S.W.	71	35	59·5	47·4	53·0	− 2·8	77	− 20	0	0	5	+ 2	1·50	+1·00	5·1	−1·9	32	−11
9. IRELAND, NORTH ...	65	35	58·2	46·9	52·2	− 1·9	71	− 13	0	0	4	+ 1	0·63	+0·07	4·0	−2·0	24	−12
10. IRELAND, SOUTH ...	68	33	61·2	45·7	52·9	− 2·6	76	− 19	0	0	5	+ 2	1·09	+0·54	5·1	−1·4	31	− 9
11. ENGLISH CHANNEL ...	65	45	59·9	50·0	54·7	− 1·9	89	− 13	0	0	6	+ 3	2·15	+1·71	6·8	−1·2	43	− 7

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 1 Week, June 2nd to June 8th, 1912.

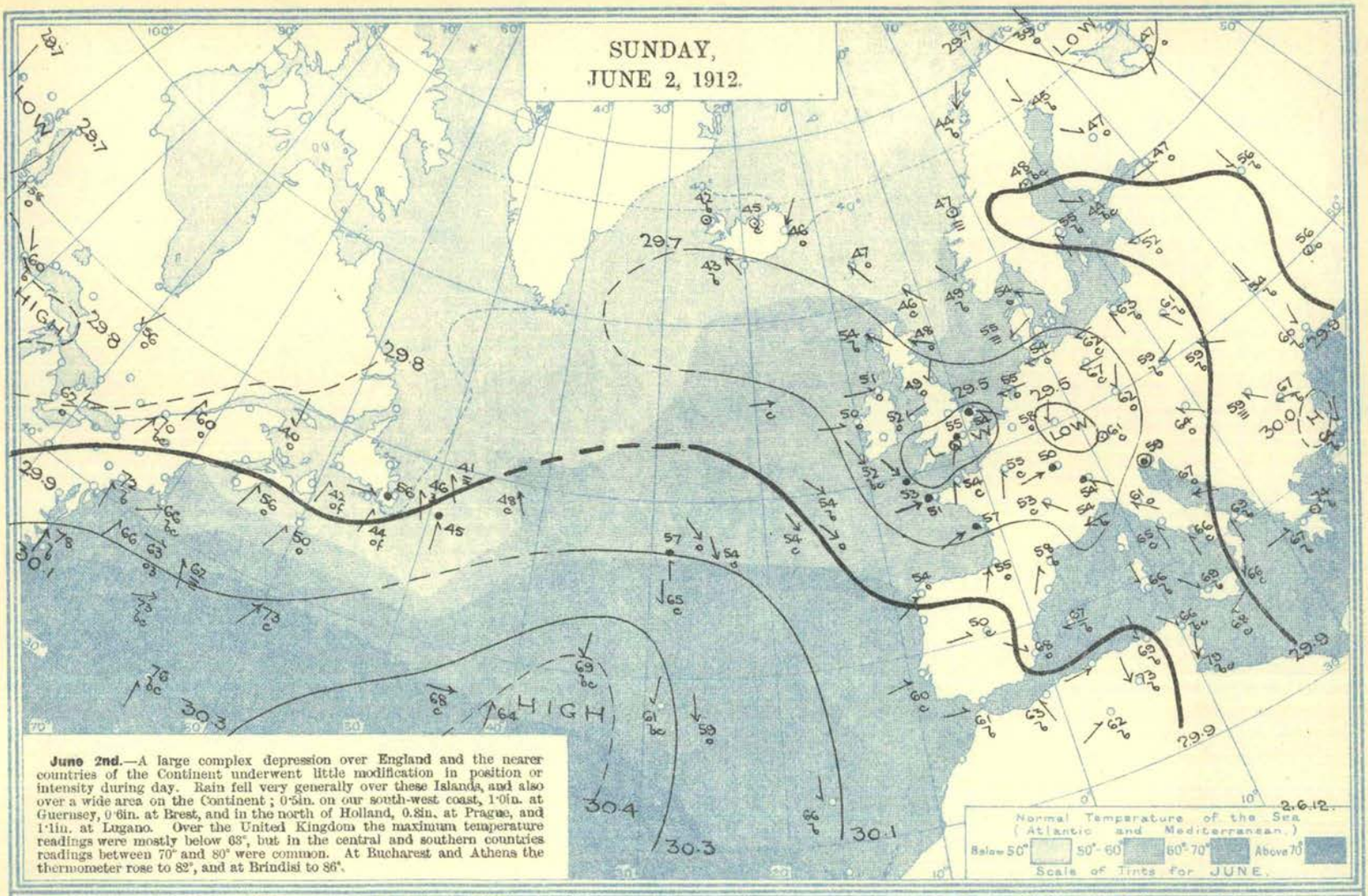
0. SCOTLAND, NORTH ...	63	39	*	*	*	*	59	− 8	0	− 1	3	0	0·46	−0·10	2·2	−3·5	13	−20
Eastern.																		
1. SCOTLAND, EAST ...	64	32	*	*	*	*	57	− 17	0	− 1	5	+ 3	0·76	+0·31	0·5	−5·6	3	−32
2. ENGLAND, N.E	66	42	*	*	*	*	71	− 9	0	0	6	+ 3	1·48	+1·04	2·3	−3·9	14	−23
3. ENGLAND, EAST ...	70	40	*	*	*	*	92	− 2	0	0	5	+ 2	1·05	+0·52	3·4	−3·4	21	−21
4. MIDLAND COUNTIES ...	67	38	*	*	*	*	79	− 16	0	0	6	+ 4	1·65	+1·17	2·6	−3·6	16	−22
5. ENGLAND, S.E.	66	37	*	*	*	*	85	− 17	0	0	5	+ 2	1·37	+0·87	5·1	−1·8	32	−11
Western.																		
6. SCOTLAND, WEST ...	69	38	*	*	*	*	77	− 7	0	0	4	+ 1	0·86	+0·28	2·7	−4·0	16	−24
7. ENGLAND, N.W.	67	38	*	*	*	*	73	− 16	0	0	6	+ 3	1·11	+0·67	3·1	−3·8	19	−25
8. ENGLAND, S.W.	71	35	*	*	*	*	77	− 20	0	0	5	+ 2	1·50	+1·00	5·1	−1·9	32	−11
9. IRELAND, NORTH ...	65	35	*	*	*	*	71	− 13	0	0	4	+ 1	0·63	+0·07	4·0	−2·0	24	−12
10 IRELAND, SOUTH ...	68	33	*	*	*	*	76	− 19	0	0	5	+ 2	1·09	+0·54	4·9	−1·6	30	−10
11. ENGLISH CHANNEL ...	65	45	*	*	*	*	89	− 13	0	0	6	+ 3	2·15	+1·71	6·8	−1·2	43	− 7

THE YEAR.—Aggregates, &c., for the Period of 23 Weeks, December 31st, 1911, to June 8th, 1912.

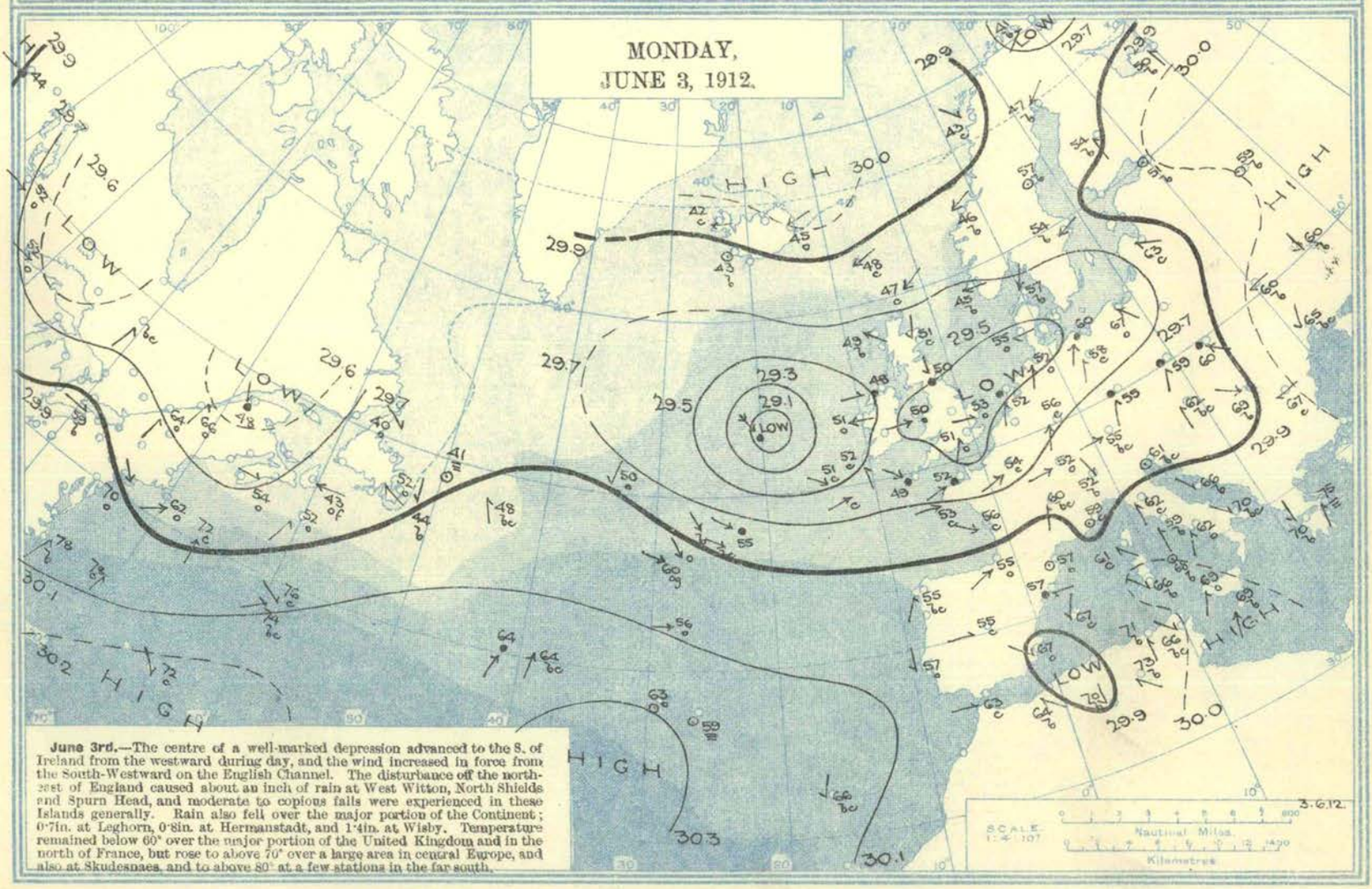
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	547	+ 32	427	−129	107	0	20·68	−0·72	3·3	0·0	27	− 1
Eastern.																		
1. SCOTLAND, EAST ...	70	−5	*	*	*	*	663	+ 58	519	−101	95	+ 9	11·32	−0·39	3·5	−0·3	29	− 3
2. ENGLAND, N.E.	78	10	*	*	*	*	778	+146	373	−102	85	+ 5	11·14	+2·22	3·5	−0·5	29	− 5
3. ENGLAND, EAST ...	82	14	*	*	*	*	973	+188	274	−247	82	+ 4	9·27	+0·42	3·9	−0·3	33	− 3
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	931	+117	373	−160	82	+ 6	13·63	+3·44	3·4	−0·4	28	− 4
5. ENGLAND, S.E.	77	13	*	*	*	*	1,006	+137	218	−163	79	+ 5	12·15	+2·04	4·1	−0·1	35	− 1
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	727	+ 51	329	− 96	94	+ 2	17·87	−0·53	3·5	−0·3	29	− 3
7. ENGLAND, N.W.	70	7	*	*	*	*	811	+ 98	298	− 88	87	+ 3	13·37	+0·64	3·7	−0·1	31	− 1
8. ENGLAND, S.W.	73	9	*	*	*	*	952	+ 90	189	−112	95	+12	17·72	+3·14	3·7	−0·6	31	− 4
9. IRELAND, NORTH ...	69	15	*	*	*	*	816	+ 72	237	−108	87	−11	13·84	−0·68	3·3	−0·4	28	− 4
10. IRELAND, SOUTH ...	71	13	*	*	*	*	997	+ 83	167	− 92	106	+17	16·99	+0·92	3·9	−0·2	33	− 2
11. ENGLISH CHANNEL ...	76	27	*	*	*	*	1,286	+265	44	− 65	94	+ 4	15·65	+3·29	4·7	−0·4	39	− 3

NOTES ON TABLE IV.

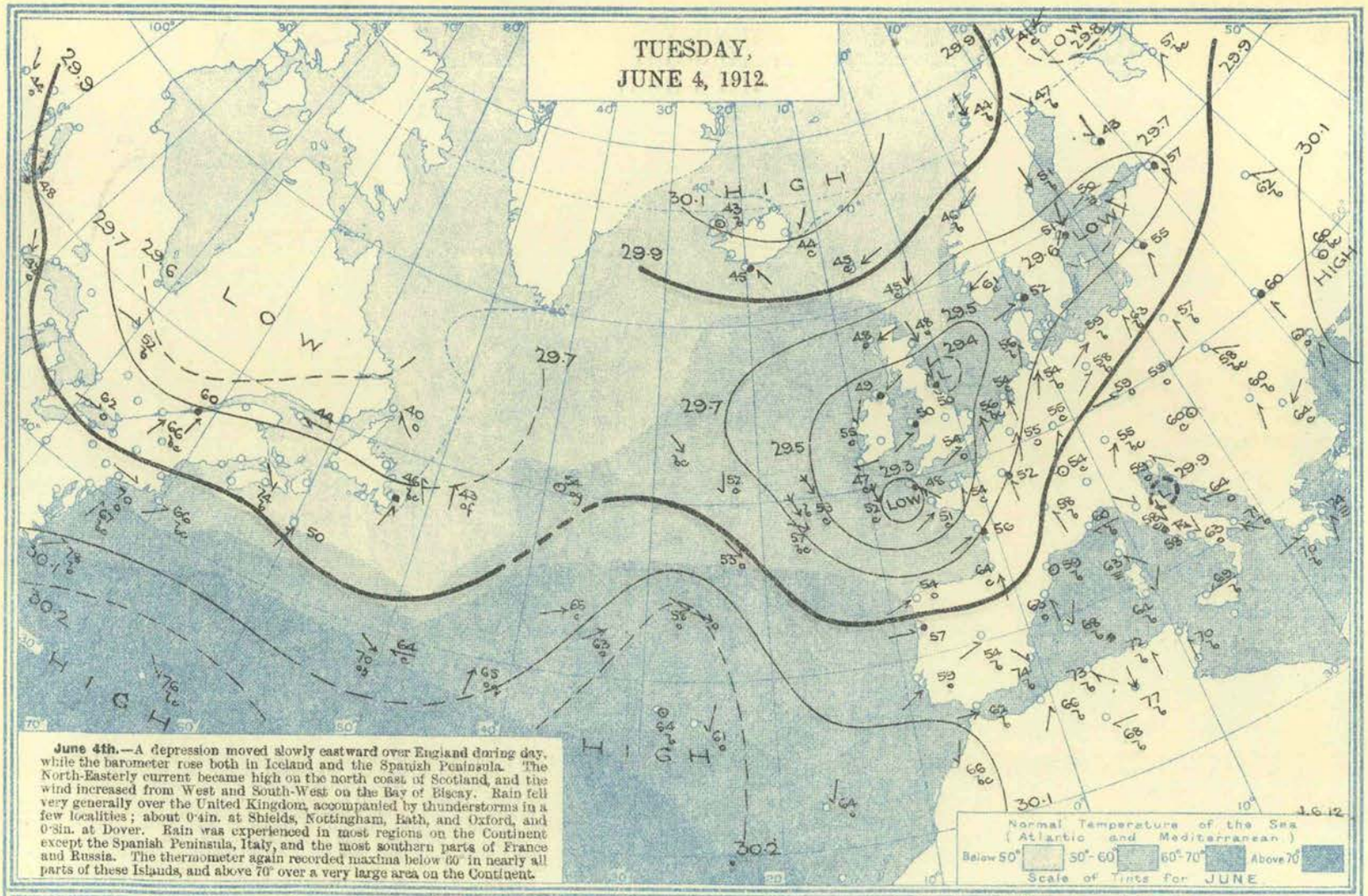
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



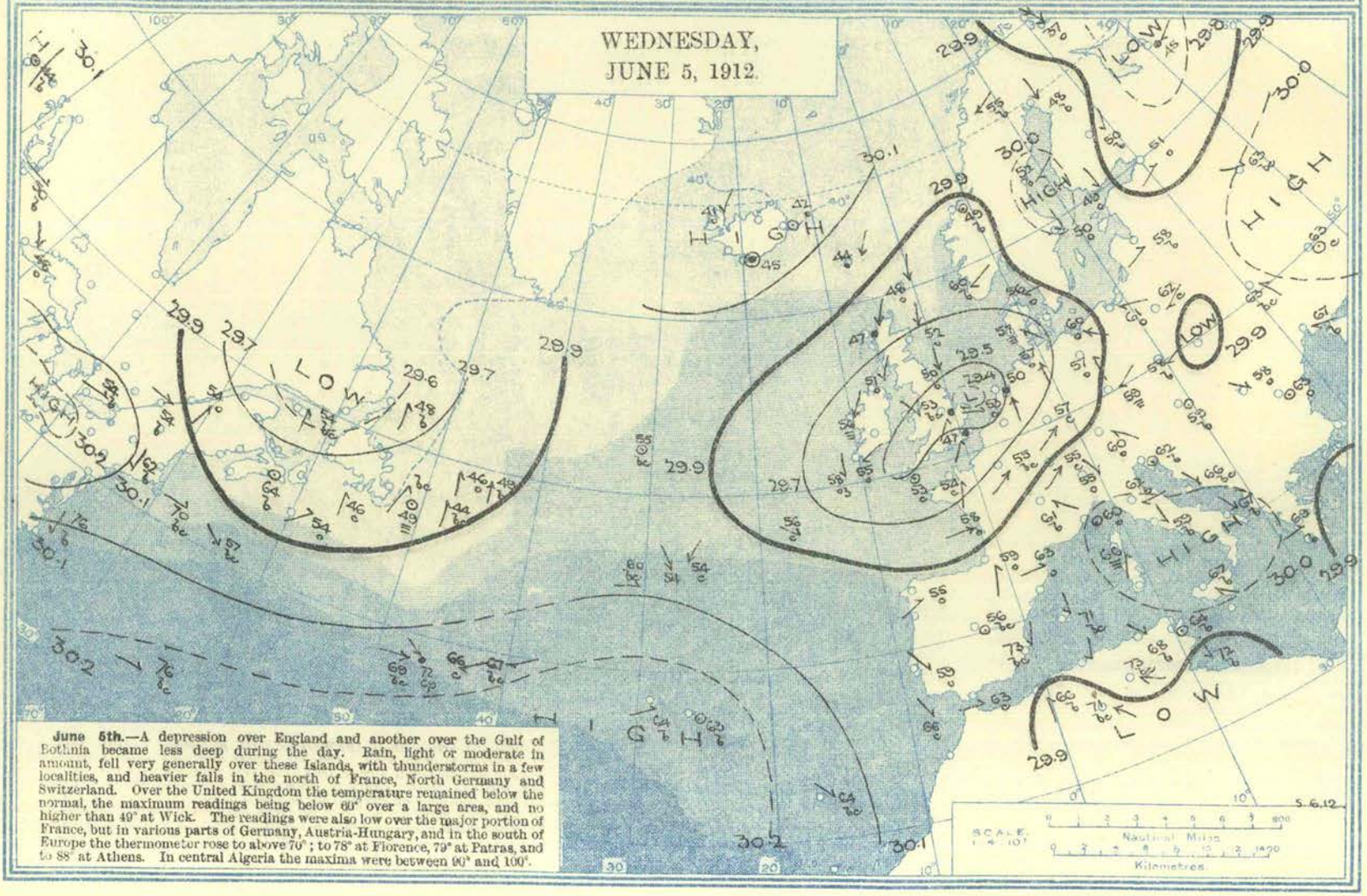
June 2nd.—A large complex depression over England and the nearer countries of the Continent underwent little modification in position or intensity during day. Rain fell very generally over these Islands, and also over a wide area on the Continent; 0·5in. on our south-west coast, 1·0in. at Guernsey, 0·6in. at Brest, and in the north of Holland, 0.8in. at Prague, and 1·1in. at Lugano. Over the United Kingdom the maximum temperature readings were mostly below 63°, but in the central and southern countries readings between 70° and 80° were common. At Bucharest and Athens the thermometer rose to 82°, and at Brindisi to 86°.



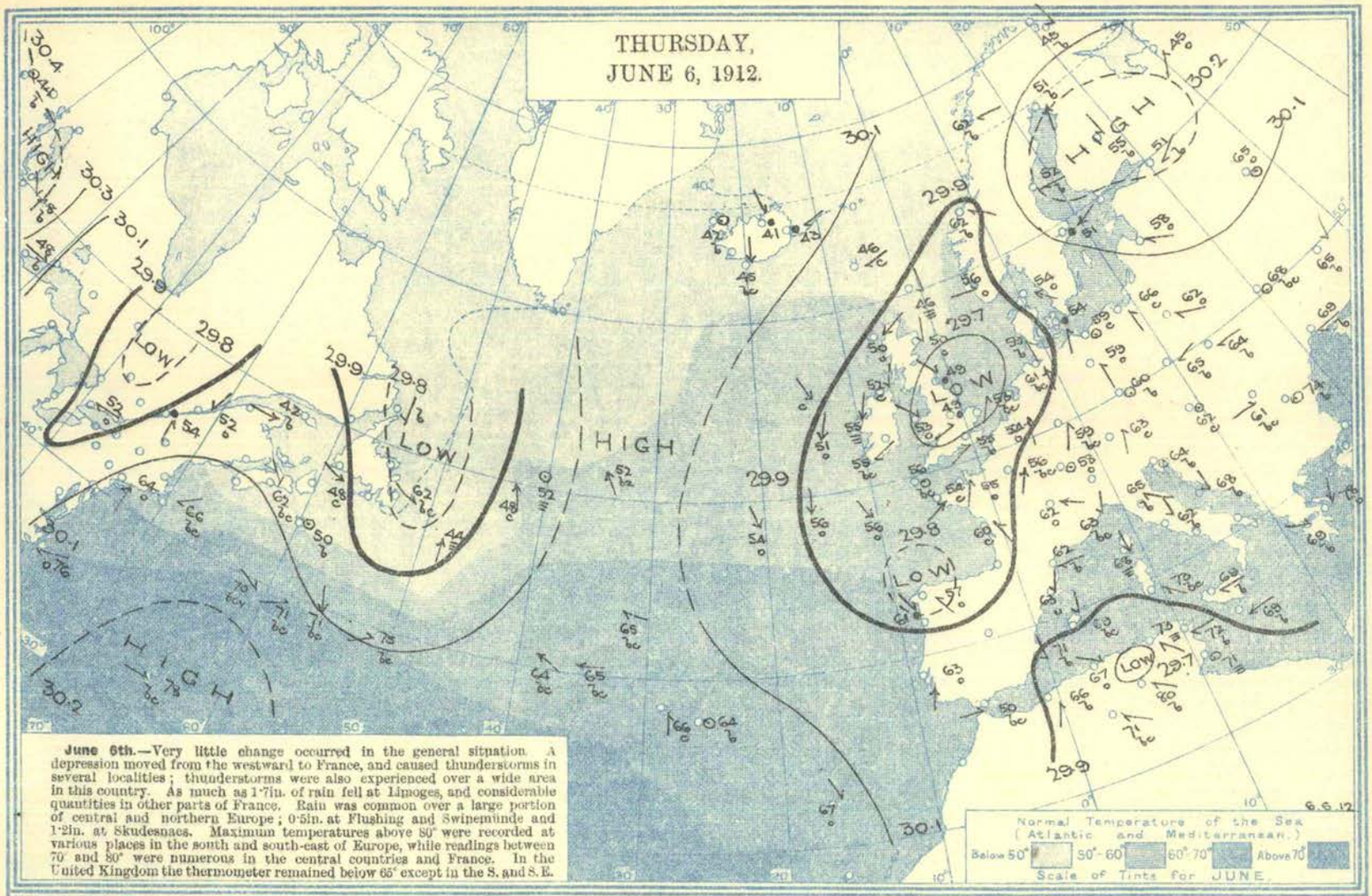
June 3rd.—The centre of a well-marked depression advanced to the S. of Ireland from the westward during day, and the wind increased in force from the South-Westward on the English Channel. The disturbance off the north-east of England caused about an inch of rain at West Witton, North Shields and Spurn Head, and moderate to copious falls were experienced in these Islands generally. Rain also fell over the major portion of the Continent; 0·7in. at Leghorn, 0·8in. at Hermanstadt, and 1·4in. at Wisby. Temperature remained below 60° over the major portion of the United Kingdom and in the north of France, but rose to above 70° over a large area in central Europe, and also at Skudesnaes, and to above 80° at a few stations in the far south.



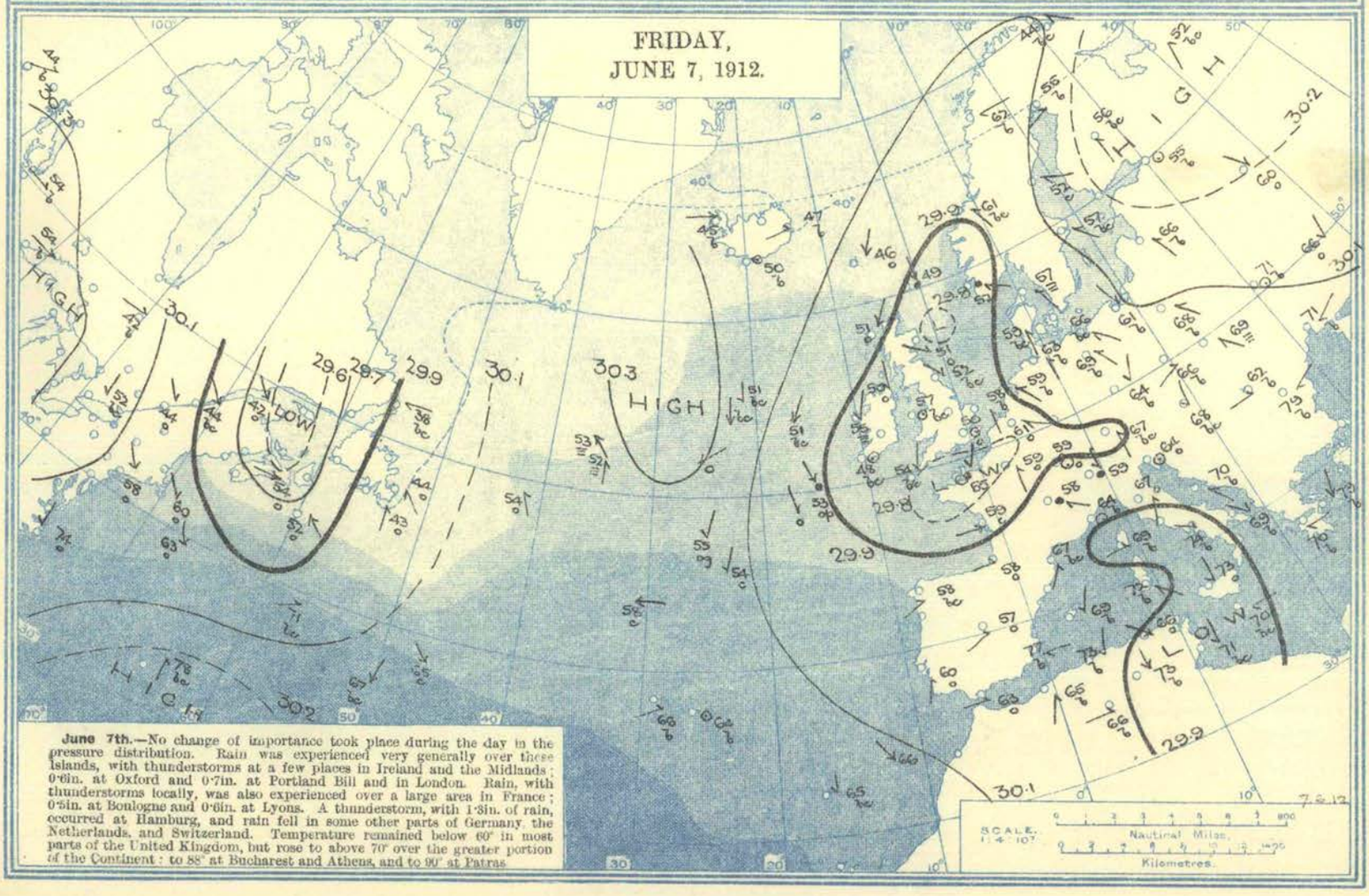
June 4th.—A depression moved slowly eastward over England during day, while the barometer rose both in Iceland and the Spanish Peninsula. The North-Easterly current became high on the north coast of Scotland, and the wind increased from West and South-West on the Bay of Biscay. Rain fell very generally over the United Kingdom, accompanied by thunderstorms in a few localities; about 0·4in. at Shields, Nottingham, Bath, and Oxford, and 0·8in. at Dover. Rain was experienced in most regions on the Continent except the Spanish Peninsula, Italy, and the most southern parts of France and Russia. The thermometer again recorded maxima below 60° in nearly all parts of these Islands, and above 70° over a very large area on the Continent.



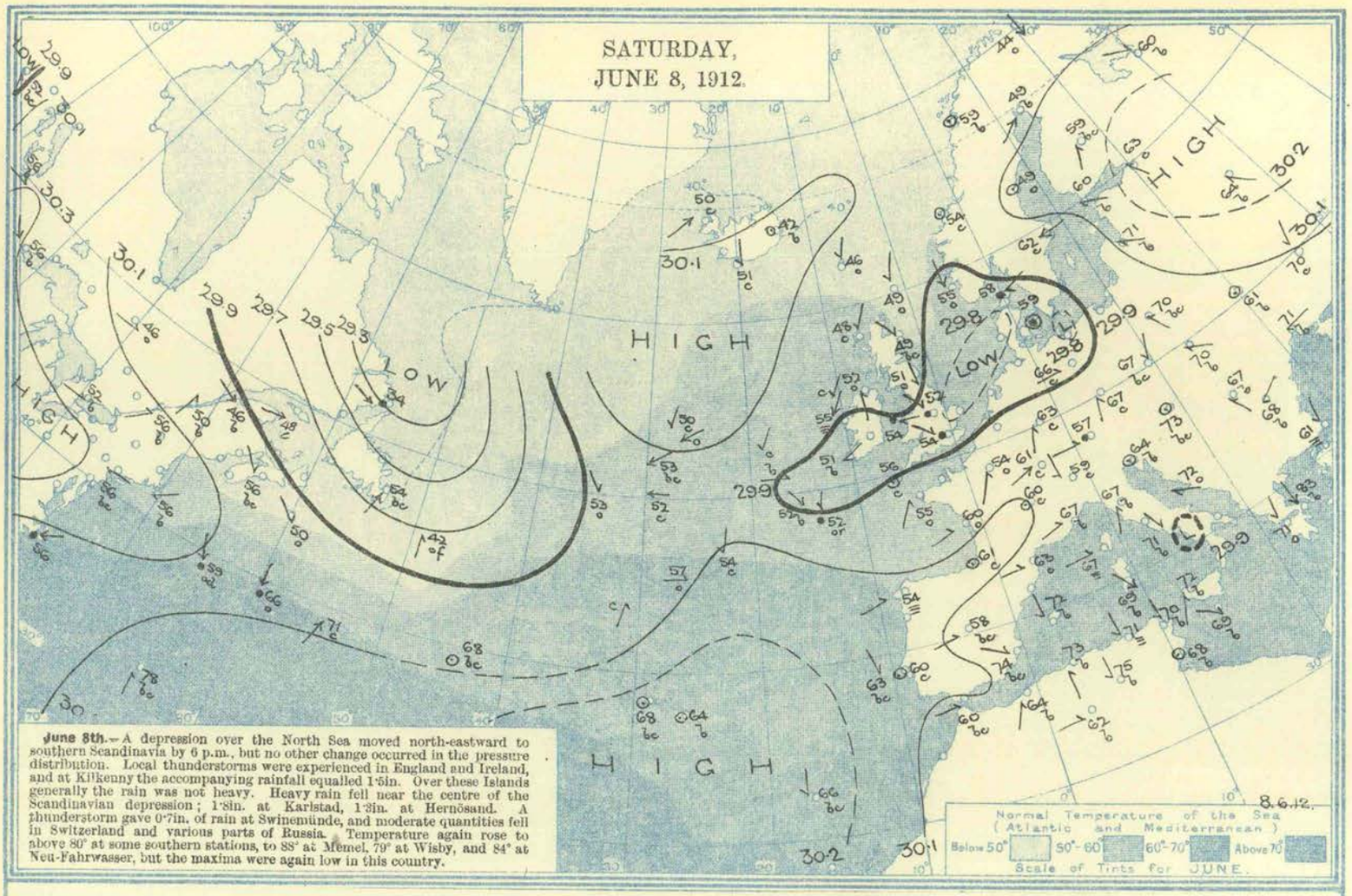
June 5th.—A depression over England and another over the Gulf of Bothnia became less deep during the day. Rain, light or moderate in amount, fell very generally over these Islands, with thunderstorms in a few localities, and heavier falls in the north of France, North Germany and Switzerland. Over the United Kingdom the temperature remained below the normal, the maximum readings being below 60° over a large area, and no higher than 49° at Wick. The readings were also low over the major portion of France, but in various parts of Germany, Austria-Hungary, and in the south of Europe the thermometer rose to above 70°; to 78° at Florence, 79° at Patras, and to 88° at Athens. In central Algeria the maxima were between 90° and 100°.



June 6th.—Very little change occurred in the general situation. A depression moved from the westward to France, and caused thunderstorms in several localities; thunderstorms were also experienced over a wide area in this country. As much as 1·7in. of rain fell at Limoges, and considerable quantities in other parts of France. Rain was common over a large portion of central and northern Europe; 0·5in. at Flushing and Swinemünde and 1·2in. at Skudesnaes. Maximum temperatures above 80° were recorded at various places in the south and south-east of Europe, while readings between 70° and 80° were numerous in the central countries and France. In the United Kingdom the thermometer remained below 65° except in the S. and S.E.

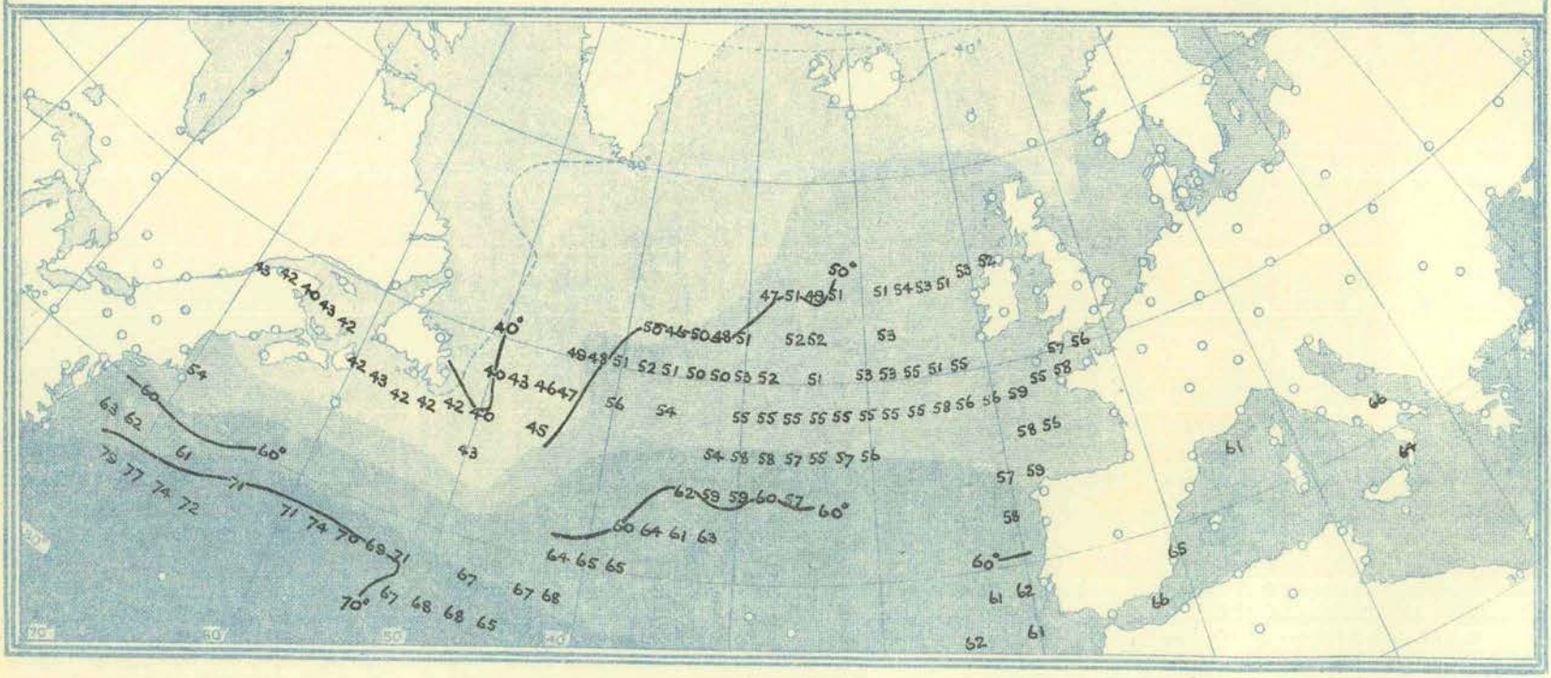


June 7th.—No change of importance took place during the day in the pressure distribution. Rain was experienced very generally over these Islands, with thunderstorms at a few places in Ireland and the Midlands; 0·6in. at Oxford and 0·7in. at Portland Bill and in London. Rain, with thunderstorms locally, was also experienced over a large area in France; 0·5in. at Boulogne and 0·6in. at Lyons. A thunderstorm, with 1·3in. of rain, occurred at Hamburg, and rain fell in some other parts of Germany, the Netherlands, and Switzerland. Temperature remained below 60° in most parts of the United Kingdom, but rose to above 70° over the greater portion of the Continent: to 88° at Bucharest and Athens, and to 90° at Patras.



June 8th.—A depression over the North Sea moved north-eastward to southern Scandinavia by 6 p.m., but no other change occurred in the pressure distribution. Local thunderstorms were experienced in England and Ireland, and at Kilkenny the accompanying rainfall equalled 1·5in. Over these Islands generally the rain was not heavy. Heavy rain fell near the centre of the Scandinavian depression; 1·8in. at Karlstad, 1·3in. at Hernösand. A thunderstorm gave 0·7in. of rain at Swinemünde, and moderate quantities fell in Switzerland and various parts of Russia. Temperature again rose to above 80° at some southern stations, to 88° at Memel, 79° at Wisby, and 84° at Neu-Fahrwasser, but the maxima were again low in this country.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 8TH June, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; • = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 24. TWENTY-FOURTH WEEK, SUNDAY, JUNE 9TH, TO SATURDAY, JUNE 15TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather remained in an extremely changeable condition, with frequent falls of rain in all districts. Thunderstorms occurred over a large portion of the United Kingdom on Sunday and Monday, at many northern stations on Tuesday and Wednesday, and over the eastern parts of Great Britain on Thursday. In many scattered localities the storms were accompanied by heavy falls of rain or hail.

Temperature was below the average in all districts excepting England East, the greatest deficiency (1°·5 or more) occurring in Scotland North and East and Ireland South. The highest readings, which were recorded mainly between the 11th and 13th, ranged from 73° in England South-West (at Cullompton) and 71° in England South-East (at Southampton) to 68° in Scotland North and West to 67° in Ireland North and to 64° in Scotland East. The lowest readings were registered in the earlier half of the week, and ranged from 37° in England South-West (at Llangammarch Wells) and 39° in England South-East and Ireland North and South, to 42° in England North-East, and to 49° in the English Channel. At a depth of 1 foot the temperature of the soil was mostly below the average, but at a depth of 4 feet the difference from the normal was generally slight.

Mean Temperature of the Sea. On all but our north-east coasts the temperature of the water was above the normal, but it was lower than in the corresponding week of last year except in the south-west.

Rainfall was largely in excess of the average in most districts, but in England East and Ireland South the excess was slight, while in the English Channel there was a considerable deficit. Amounts exceeding an inch in 24 hours were recorded at Colmonell and at Over Court, near Bristol, on the 10th, at Ventnor on the 12th, and at Arlington on the 15th; at the last mentioned station the fall was as large as 1·6 in.

Bright Sunshine was very deficient in North Britain, and especially in Scotland East, where the mean daily duration, 1·3 hour, was equal to only 7 per cent. of the possible amount. In most other parts of the Kingdom the duration was nearly normal, but in England East it was considerably in excess, the mean daily duration, 8·2 hours, being equal to 50 per cent. of the possible.

Barometer and Wind. During the whole period pressure was high over the Azores or between that region and the Peninsula, and relatively high in Iceland, while shallow depressions from the westward appeared over these islands or their immediate neighbourhood. The wind was generally light or moderate in force, but varied a good deal in direction. On Tuesday and Wednesday it was North-Easterly or Northerly throughout the Kingdom, but on the other days it was mostly between South and West, except in Scotland, where it was from points between North-West and North-East. Quite at the end of the week the wind increased greatly from North-West on the North Sea, and from the South-West and West on the south coast of England.

THE WEEK.

For explanation of the terms "Unusual" &c., *see* p. 95.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate
	Rainfall ...	Moderate	Heavy	Very heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate
	Sunshine ...	Scanty	Very scanty	Scanty	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 2 weeks from June 2nd, 1912.	Warmth ...	0 * 1	0 * 2	0 * 1	0 * 0	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1	0 * 1	0 * 2	0 * 1
	Rainfall ...	0 * 0	2 * 0	2 * 0	1 * 0	2 * 0	2 * 0	2 * 0	2 * 0	2 * 0	1 * 0	2 * 0	1 * 0
	Sunshine ...	0 * 2	0 * 2	0 * 2	1 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(24938—24.) Wt. 173—814. 450. 6/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day.°	Day.°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	*54*	*10, 12*	*39*	*11th*	*51·7*	*44·1*	*47·6*	—	*39*	*0*			51·5				*2*	*0·05*	—	*5·1*	—	27	—	*Baltasound.*
a Islands .. *a* Lerwick	52	9, 12, 15	43	11, 15	51·3	44·7	47·8	- 0·9	41	0							1	0·01	—	2·6	- 2·6	15	-14	Deerness.
a Stornoway	61	12th	44	14th	56·3	46·4	51·0	- 0·5	63	0							3	0·11	- 0·42	5·1	- 1·1	29	- 6	Stornoway.
a Castlebay, Barra Isd. ..	*61*	*10th*	*47*	*9th*	*58·1*	*49·1*	*53·3*	- *1·1*	*79*	*0*							*5*	*0·35*	—	*5·4*	—	*31*	—	*Castlebay.*
a Wick	53	12th	44	10, 14, 15	50·9	45·7	48·1	- 3·4	43	0							4	0·25	- 0·18					
b, Main- *p* Strathpeffer ..	64	12th	40	15th	57·1	46·4	51·4	- 1·9	66	0							6	0·51	+ 0·08	1·4	- 4·0	8	-23	Strathpeffer.
land. *p* Glencarron ..	62	12th	43	9, 15	56·1	45·6	50·5	- 1·5	60	0							5	1·08	+ 0·14					
p Fort Augustus..	65	12th	45	15th	56·6	47·8	51·9	- 1·2	69	0							6	1·31	+ 0·35	2·2	- 2·3	13	-13	Fort Augustus.
p Fort William ..	68	12th	45	12th	61·9	47·3	54·1	- 0·2	85	0							7	2·44	+ 1·60					
1. SCOTLAND, E.																							
p Gordon Castle.. S	63	10, 12	45	14, 15	58·0	47·1	52·2	- 1·5	71	0	0	42	52·7	-2·1	49·5	-1·5	—	—	—	0·8	—	5	—	Crathes S.
a Nairn	64	12th	44	15th	57·6	46·6	51·7	- 1·9	68	0							4	0·46	- 0·02	*4·0*	—	*23*	—	*Gordon Castle.*
a Aberdeen ..	60	10th	45	15th	56·1	48·1	51·8	- 0·9	69	0							7	0·42	+ 0·04	3·1	—	18	—	Nairn.
a Balmoral ..	59	10th	40	10th	57·3	44·6	50·5	- 1·0	60	0	0	35					4	0·66	+ 0·24	1·4	- 4·8	8	-27	Aberdeen.
p Crieff	64	9th	45	15th	59·4	46·7	52·6	- 2·6	74	0			49·3	-0·6			5	0·84	+ 0·36					
a Leith .. .. S	61	13th	48	15th	56·9	49·1	52·7	- 2·0	75	0							6	1·88	+ 1·24	0·5	—	3	—	Balmoral.
p West Linton .. S	62	12th	45	12th	58·0	46·4	51·8	- 0·4	69	0							7	1·11	+ 0·71					
p Marchmont .. S	60	9, 13	45	14th	56·3	46·4	51·0	- 1·6	63	0	0	41	52·9	-2·8			7	2·30	—	*2·5*		*15*		*West Linton.*
																	6	1·74	+ 1·23	0·7	- 5·4	4	-32	Marchmont.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	62	13th	46	9th	56·1	47·7	51·6	- 1·9	67	0	0	41	53·2	-2·8	50·8	-1·4	7	2·36	+ 1·92	2·0	—	12	—	Cockle Park.
a Shields	63	15th	46	9th	57·3	47·6	52·1	- 1·3	71	0							6	0·89	+ 0·43					*Newcastle.*
p Durham	63	11th	46	10th	59·7	48·0	53·4	- 1·3	80	0	0	44					6	0·91	+ 0·49	3·4	- 2·3	20	-14	Durham.
a, North .. *p* Rounton	62	11, 13–15	44	12th	60·7	45·6	52·6	- 0·9	74	0	0	39	55·2				6	2·57	+ 2·12					Rounton.
a West Witton	*64*	*11th*	*45*	*13th*	*60·7*	*46·7*	*53·2*	—	*78*	*0*	0	42	55·3		50·1		*7*	*1·01*	—					*West Witton.*
p Scarborough ..	62	13, 15	46	11th	58·3	49·1	53·4	- 1·2	80	0							5	0·85	+ 0·43	1·7	—	10	—	Scarborough.
p York	69	9, 11	43	11th	64·3	48·9	56·1	- 0·4	99	0			56·2	-0·2	52·7	+0·5	6	1·16	+ 0·68	4·3	- 1·5	26	- 9	York.
a Spurn Head	62	11, 13	49	12th	60·4	50·0	54·8	+ 0·1	90	0	0	39	55·7	-1·1	51·6	+0·1	5	0·51	+ 0·17	*4·3*	—	*26*	—	*Hull.*
b, South .. *a* Lincoln	68	9, 11	47	9, 11	64·9	49·0	56·4	- 1·1	101	0			56·0	-1·7	52·3	-0·6	6	0·50	+ 0·05					Lincoln.
a Fulbeck	66	11, 13	42	11th	64·1	46·7	54·8	- 1·9	90	0	0	40	58·2	-2·7	53·2	-1·1	7	0·85	+ 0·41	7·8	—	47	—	Rauceby.
																	—	—	—	7·7	—	46	—	Skegness.
3. ENGLAND, E.											0	46	60·2	+0·4	55·2	+0·2	—	—	—	*8·4*	—	*51*	—	*Lowestoft.*
p Cromer	70	9th	47	9, 11	65·4	48·9	56·6	+ 1·2	102	0							5	0·59	—	7·0	—	42	—	Cromer.
p Hillington																	—	—	—					Hillington.
a, North .. *a* Yarmouth	65	13, 15	50	14th	63·1	52·1	57·2	+ 1·7	106	0			60·7	-1·5	56·3	-1·2	4	0·25	- 0·15	9·1	—	56	—	Yarmouth.
a Norwich	70	10th	46	11th	66·7	49·6	57·6	+ 1·6	109	0	0	39	59·9				4	0·47	—	*8·0*	—	*49*	—	*Norwich.*
p Geldeston	69	10th	43	11th	66·3	49·4	57·3	+ 1·4	107	0							4	0·55	+ 0·12	8·3	+ 1·3	51	+ 8	Geldeston.
p Cambridge	69	11th	42	11th	66·1	48·3	56·6	- 1·0	102	0	0	40	60·1	+0·5	56·0	+0·5	6	0·43	- 0·04	8·7	+ 2·0	53	+13	Cambridge.
a Felixstowe	*67*	*13, 15*	*48*	*11th*	*64·4*	*51·3*	*57·4*	+ *0·9*	*108*	*0*							*4*	*0·78*	—	*9·2*	—	*56*	—	*Felixstowe.*
a Clacton-on-Sea ..	69	13th	49	14th	65·7	52·1	58·4	+ 2·1	115	0	0	43	58·9	+0·3	55·5	+0·4	4	0·40	—	9·0	—	55	—	Clacton.
b, South .. *a* Rothamsted	68	11th	41	11th	65·1	48·3	56·1	- 0·3	99	0							7	1·02	+ 0·54	7·9	+ 1·4	49	+ 9	Rothamsted.
a Shoeburyness	*68*	*13th*	*49*	*11, 12, 14*	*66·0*	*50·7*	*57·8*	- *0·8*	*111*	*0*	0	43	60·9	0·0			*4*	*0·68*	+ *0·29*	*8·7*	—	*53*	—	*Southend.*
p Tottenham	70	11th	45	11th	66·6	50·9	58·2	+ 0·5	113	0	0	42			56·7	+0·4	3	0·75	—	7·6	—	47	—	Tottenham.
4. MIDLAND COUNTIES.											0	39	56·0	-1·9	50·5	-0·5	—	—	—	*4·2*	—	*25*	—	*Huddersfield.*
a Harrogate	64	11th	46	11th	61·4	47·9	54·2	- 0·2	85	0	0	41	54·4	+0·2	51·9	0·0	6	1·30	+ 0·76	4·7	—	28	—	Harrogate.
a Bawtry	69	11th	42	11th	64·9	47·9	55·8	- 1·0	97	0	0	37	57·4		53·7		7	0·81	+ 0·40	5·6	+ 0·1	34	+ 1	Worksop.
p Buxton	*67*	*9th*	*37*	*11th*	*61·1*	*44·4*	*52·2*	- *0·8*	*71*	*0*	0	33	54·6	-1·2	49·9	-0·2	*5*	*0·93*	+ *0·21*	*6·7*	—	*40*	—	*Buxton.*
a East .. *a* Nottingham	69	11th	41	11th	64·9	47·4	56·5	- 1·0	95	0	0	39	57·9	-0·4	53·6	0·0	7	0·54	+ 0·10	7·3	—	44	—	Nottingham.
p Birmingham, Edgbsn.	64	11, 14	45	11th	62·4	48·3	54·9	- 1·5	90	0	0	31	51·8	-1·5	49·8	+0·3	6	0·99	+ 0·48	5·3	—	32	—	Birmingham.
a Raunds	68	11, 14	41	11th	66·7	47·3	56·3	- 0·6	100	0	0	36	57·0		53·1		7	1·26	—					Raunds.
a Oxford	68	11th	43	11th	64·7	48·7	56·1	- 1·3	99	0	—	—					5	1·24	+ 0·75	7·1	+ 0·6	44	+ 4	Oxford.
											0	37	53·9	-1·8	50·2	-0·3	—	—	—	6·4	—	38	—	Sheffield.
a Cheadle	68	13th	42	14th	65·6	46·6	55·4	+ 0·4	94	0	0	38					6	0·66	+ 0·08					Cheadle.
p Shrewsbury ..	67	11, 12, 14	40	9th	64·4	45·9	54·5	- 2·4	88	0	0	42					4	0·93	—					Shrewsbury.
b, West .. *a* Hereford	68	11, 12	40	11th	65·4	48·6	55·4	- 1·9	94	0	0	36					4	0·21	- 0·29					Hereford.
a Cirencester	67	11th	43	11th	63·7	46·1	54·3	- 1·6	86	0	0	42	56·7		53·6		4	0·65	+ 0·12	7·7	+ 1·1	47	+ 7	Cirencester.
a Bath	70	11th	43	11th	65·4	49·3	56·8	- 0·6	104	0			59·2	-0·6	55·9	0·0	4	0·64	+ 0·11	7·3	—	45	—	Bath.
5. ENGLAND, S.E.											0	36	60·8	+2·3	56·2	+0·4	—	—	—					Canterbury.
p Kew	68	9, 11	48	11, 14	65·9	51·1	58·0	+ 0·5	112	0	0	36	58·8	-0·1	54·6	+0·4	5	0·89	+ 0·41	7·3	+ 0·8	45	+ 5	Kew.
a Marlborough	64	12, 14	39	11th	62·4	45·4	53·3	- 2·2	79	0	0	35					5	0·86	+ 0·33	6·1	0·0	37	0	Marlborough.
a Margate	68	13th	50	9th	65·7	53·4	59·1	+ 2·2	120	0			58·0	-0·4	55·0	-0·1	3	0·81	+ 0·41	8·8	+ 2·6	54	+16	Margate.
a Wisley, Surrey ..	69	11th	44	11th	66·3	49·6	57·4	- 0·9	108	0	0	36	59·6	0·0	55·8	+0·3	4	0·68	—	8·4	—	52	—	Wisley
a Swarraton	68	11th	44	11th	63·3	49·7	56·0	- 0·1	98	0	0	42	60·9	-0·5	56·4	+0·4	4	1·35	+ 0·82	8·1	—	50	—	Worthing.
a Tunbridge Wells ..	67	9, 11–14	44	11th	66·1	49·1	57·0	+ 0·4	105	0	0	40	60·1	-1·0			3	1·04	+ 0·54	8·7	+ 2·0	53	+12	Tunbridge Wells.
a Dungeness	65	11, 12	49	14th	61·9	52·9	57·1	+ 0·4	106	0							2	0·79	+ 0·46	8·9	—	55	—	Littlestone.
p Hastings.. ..	68	11, 12	49	13, 14	64·6	51·4	57·5	+ 0·4	109	0	0	44	61·9		56·6		3	0·90	+ 0·50	*8·2*	+ *0·5*	*51*	+ *4*	*Hastings.*
p Southampton	71	11th	48	11th	64·6	51·4	57·5	- 1·6	109	0	0	43					4	1·67	+ 1·22	6·5	- 0·6	40	- 4	Southampton.
a Ventnor	68	11th	52	9, 10, 13	62·9	53·1	57·7	- 0·1	110	0							4	1·90	+ 1·47	5·3	- 1·3	33	- 8	Ventnor.
																	—	—	—	—	—	—	—	*Portsmouth.*
													59·4		56·1		—	—	—	8·7	+ 1·4	54	+ 9	Eastbourne.
													58·7		57·5		—	—	—	*5·7*	—	*35*	—	*Bournemouth.*
LONDON.											0	45			57·3		—	—	—	*7·7*	+ *0·4*	*48*	+ *2*	*Brighton.*
a Westminster	*69*	*11th*	*50*	*11, 14*	*66·7*	*52·1*	*58·9*	+ *0·7*	*118*	*0*	0	44					*5*	*0·80*	+ *0·32*	*7·3*	+ *1·7*	*45*	+ *10*	*Westminster.*
a Greenwich	*71*	*11, 13*	*45*	*11th*	*68·9*	*49·9*	*58·7*	*0·0*	*117*	*0*	0	36					*4*	*0·97*	+ *0·51*	*8·0*	+ *1·5*	*49*	+ *9*	*Greenwich.*
a Hampstead	*70*	*9th*	*47*	*14th*	*65·9*	*49·7*	*57·2*	—	*106*	*0*	0	36					*5*	*0·97*	—	*7·4*	—	*45*	—	*Hampstead.*
a Camden Square ..	*73*	*11th*	*46*	*11th*	*69·1*	*50·0*	*58·9*	—	*118*	*0*	0	42					*5*	*0·97*	—	*6·5*	—	*40*	—	*Camden Square*
6. *a*, SCOTLAND, W.																							
a Poltalloch .. S	65	12th	46	12th	61·0	50·0	55·1	- 0·3	92	0							6	1·28	+ 0·60					
p Glasgow	62	9th	48	11th	59·4	50·0	54·4	- 0·3	87	0	0	46					7	1·44	+ 0·86	2·4	- 3·0	14	-18	Glasgow.
p Rothesay .. S	65	9, 12	49	9, 11–15	62·0	49·1	55·1	+ 0·1	92	0			51·6	-0·6			7	1·40	+ 0·72					
a Kilmarnock ..	68	12th	47	12th	62·7	49·0	55·4	+ 0·5	94	0							5	1·07	—	*5·6*	—	*33*	—	*Kilmarnock.*
a Colmonell ..	67	12th	42	12th	62·3	47·9	54·6	- 0·3	88	0	0	38					6	2·98	+ 2·42					
p Dumfries ..	67	9, 12	46	9, 12	63·7	49·0	55·8	- 0·5	97	0	0	40	57·9		53·7		6	0·56	+ 0·05	*5·2*	—	*31*	—	*Dumfries.*
p Cally, Gatehouse	66	11, 13	41	14, 15	62·3	46·0	53·6	- 1·2	81	0							5	2·21	+ 1·56					
b I. OF MAN.																							
p Douglas	63	12th	46	12th	60·7	48·9	54·4	- 0·3	87	0	0	41					4	0·27	- 0·32	8·5	+ 1·2	50	+ 7	Douglas.
											0	37	54·4	-1·8	50·4	-1·1	—	—	—	*4·1*	—	*25*	—	*Burnley.*
											0	38					—	—	—	8·1	—	49	—	Hoylake.
7. *a*, ENGLAND, N.W.																							
p Aspatria	67	12th	45	9, 12	62·7	47·7	54·7	+ 0·2	89	0	0	39	57·9		51·6		7	1·91	+ 1·36	5·4	—	32	—	Aspatria.
p Newton Rigg ..	65	9th	44	9, 11	62·1	45·6	53·3	- 0·8	79	0	0	35	55·8	-1·7	51·1	-0·8	7	1·71	+ 1·24	5·5	- 1·4	33	- 9	Newton Rigg.
p Stonyhurst	64	9th	47	11, 14	61·3	50·6	55·6	+ 0·2	95	0	0	40					6	1·57	+ 0·91	3·7	- 2·8	22	-17	Stonyhurst.
p Blackpool	66	12th	44	11th	61·9	48·7	54·8	- 1·1	90	0	0	37	56·6		52·2		5	0·95	+ 0·48	7·7	+ 1·1	46	+ 6	Blackpool.
p Manchester (Whit Pk.)	*67*	*11th*	*44*	*11th*	*63·7*	*49·6*	*56·2*	—	*99*	*0*							*4*	*0·96*	—	*5·6*	—	*34*	—	*Whit Park.*
a Liverpool (Bidston) ..	66	12th	46	11th	63·0	49·9	56·0	+ 0·2	98	0							4	0·36	- 0·15	*8·7*	—	*52*	—	*Liverpool.*
a Hawarden Bridge ..	68	11th	40	11th	63·7	47·1	54·8	- 2·1	90	0	0	38	58·6	-2·1	55·0	-1·6	5	0·67	+ 0·23	*8·1*	+ *1·1*	*49*	+ *7*	*Southport.*
											0	41	56·2	-1·6	53·7	+0·1	—	—	—	*4·9*	—	*30*	—	*Manchester (City)*
b, NORTH WALES.																							
p Llandudno	67	12th	46	11th	61·9	49·6	55·3	- 1·3	93	0							6	0·85	+ 0·40	9·0	+ 2·2	55	+14	Llandudno.
a Holyhead ..	66	12th	48	10th	61·0	49 6	54·9	- 0·2	90	0							5	0·67	+ 0·19	6·9	—	42	—	Aberdovey.
p Bettws-y-Coed ..	70	12th	41	12th	64·0	46·9	54·9	- 0·8	90	0	0	40	54·3	-1·5	51·6	0·0	5	1·29	—	5·8	—	35	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																		*	*	7·3	—	45	—	Aberystwyth.
a Llangammarch Wells	68	11th	37	11, 12	62·3	42·1	51·5	- 3·6	67	0	0	34	53·7	-2·2	50·7	-0·5	6	0·60	—	6·3	—	38	—	Llangammarch
a Pembroke	64	11th	48	11th	59·3	51·7	55·2	0·0	92	0	*	*	*	*	*	*	4	0·68	+ 0·23	6·6	- 0·9	41	- 6	Pembroke.[Wells
p Cardiff	68	12th	44	11th	63·1	48·6	55·4	- 2·5	94	0	0	41	59·6	-0·5	55·2	+0·2	5	1·52	+ 0·95	*7·0*	—	*43*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	69	11th	46	11th	65·0	51·4	57·7	- 0·2	110	0	0	43	*	*	*	*	5	1·07	+ 0·54	*6·8*	—	*42*	—	*Clifton.*
a Shaftesbury	66	11th	46	11th	62·0	48·1	54·6	- 0·8	88	0	*	*	58·3	*	*	*	5	1·04	+ 0·50	*	*	*	*	Shaftesbury.
a Arlington	67	12th	41	11, 12	62·3	46·0	53·6	- 1·0	81	0	*	*	58·3	*	*	*	5	2·58	+ 1·88	6·0	- 1·4	37	- 8	Newquay.
a Cullompton	73	12th	41	11th	65·6	47·3	55·8	- 1·4	97	0	0	38	58·1	*	*	*	7	1·02	+ 0·55	4·7	- 1·9	29	-12	Cullompton.
a Portland	65	12th	51	11th	60·9	53·4	56·9	+ 0·7	104	0	*	*	*	*	*	*	3	0·65	—	*7·0*	—	*44*	—	*Weymouth.*
p Plymouth	69	11, 12	48	11th	64·3	51·4	57·4	- 0·6	108	0	*	*	61·1	+0·7	*	*	6	0·67	+ 0·16	6·8	- 0·3	42	- 2	Plymouth.
p Falmouth	64	11, 12	47	10th	62·4	51·4	56·5	- 0·2	102	0	*	*	*	*	*	*	5	0·71	+ 0·16	6·7	- 0·9	42	- 6	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	60	12th	48	9, 10, 13	57·6	48·7	52·8	- 0·8	76	0	*	*	*	*	*	*	6	1·50	+ 1·02	*	*	*	*	* *
a Blacksod Point ..	62	10, 11, 12	45	14th	60·6	48·4	54·1	- 0·7	85	0	*	*	*	*	*	*	3	0·65	+ 0·04	*	*	*	*	* *
p Markree Castle ..	66	12th	39	12th	62·6	45·0	53·2	- 1·1	78	0	0	36	57·8	*	53·1	*	6	1·06	+ 0·41	4·7	- 1·0	28	- 6	Markree Castle.
a Birr Castle ..	65	10th	44	12th	62·4	46·6	54·0	- 1·7	84	0	*	*	*	*	*	*	7	0·63	+ 0·11	*5·9*	+ *0·3*	*36*	+ *2*	*Birr Castle.*
b, East .. { *p* Armagh	67	12th	45	12th	63·3	47·7	55·0	+ 0·3	91	0	0	37	56·0	-1·9	52·7	-0·9	6	1·39	+ 0·83	6·5	+ 0·8	39	+ 4	Armagh.
a Donaghadee	64	15th	46	14th	61·6	49·3	55·0	+ 0·3	91	0	*	*	*	*	*	*	6	1·05	+ 0·52	*	*	*	*	* *
											0	37	58·8	+0·8	54·5	+0·4	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	33	*	*	*	*	—	—	—	7·8	+ 1·3	47	+ 8	Phœnix Park.
a, East .. { *p* Dublin, City	69	12th	47	11th	64·3	49·1	56·2	- 1·2	99	0	0	44	*	*	*	*	5	0·45	+ 0·02	*	*	*	*	Dublin City.
a Kilkenny	68	12th	40	11th	63·3	46·0	54·1	- 1·9	85	0	*	*	*	*	*	*	6	0·91	+ 0·37	*	*	*	*	* *
a Waterford	67	12, 14	43	12th	64·3	47·7	55·4	- 1·3	94	0	*	*	*	*	*	*	2	0·14	- 0·48	*	*	*	*	* *
b, West .. { *a* Birr Castle	65	10th	44	12th	62·4	46·6	54·0	- 1·7	84	0	*	*	*	*	*	*	7	0·63	+ 0·11	5·9	+ 0·3	36	+ 2	Birr Castle.
a Foynes	64	11th	45	11th	61·0	49·6	54·9	- 1·6	90	0	*	*	*	*	*	*	7	1·79	+ 1·24	*	*	*	*	* *
a Cahir	69	12th	39	11th	63·9	45·9	54·3	- 1·8	86	0	*	*	*	*	*	*	7	1·05	—	*	*	*	*	* *
a Killarney ..	69	11th	43	11th	64·5	47·9	55·6	- 0·2	95	0	*	*	*	*	*	*	4	0·31	- 0·36	*	*	*	*	* *
a Valencia	63	12th	43	10th	60·1	47·6	53·4	- 2·8	80	0	*	*	*	*	*	*	5	0·57	- 0·16	7·2	+ 0·7	41	+ 5	Valencia.
a Roche's Point ..	64	12, 14	48	9, 11	61·9	50·3	55·7	- 0·5	96	0	*	*	*	*	*	*	7	0·33	- 0·32	6·9	—	42	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	12th	49	10th	61·6	51·7	56·3	- 0·4	100	0	*	*	*	*	*	*	3	0·28	- 0·11	7·5	- 0·6	47	- 4	Scilly.
a Jersey, St. Aubins ..	70	11th	51	10th	62·7	54·0	58·1	- 0·1	113	0	*	*	*	*	*	*	4	0·14	- 0·33	7·0	- 1·0	44	- 6	St. Heliers.
a Guernsey (Villa Carey)	66	12th	50	10th	62·9	52·7	57·4	- 0·1	108	0	0	42	61·3	+0·9	58·2	+1·7	4	0·21	- 0·29	7·3	- 1·0	46	- 6	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·2 hrs. 45 °/₀; Ramsgate, 9·6 hrs. 59 °/₀; Rhyl, 9·0 hrs. 54 °/₀; Salcombe, 7·7 hrs. 48 °/₀; Tenby, 7·3 hrs. (-0·3) 45 °/₀ (- 2 °/₀); Torquay, 7·4 hrs. (-0·3) 46 °/₀ (-1 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 15th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from. Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	50	48	48·8	+0·1	SCOTLAND, W. ..	{ Lamlash	56	50	53·2	+0·4
	{ Kirkwall	53	51	52·4	+0·5		{ Ballantrae	55	51	53·2	+1·1
	{ Wick	50	49	49·4	-1·0	ENGLAND, N.W. ..	Port Erin	55	51	52·9	+1·4
SCOTLAND, E. ..	{ Cromarty	54	52	53·0	+0·4		{ Newquay	57	55	56·2	-0·8
	{ Pennan Bay	50	49	49·8	-2·2	ENGLAND, S.W. ..	{ Scilly	58	57	57·5	—
	{ Aberdeen, Cove Bay	51	50	50·1	-0·2		{ Plymouth‡	59	57	57·7	+1·8
ENGLAND, N.E. ..	{ Burnmouth, Berwick	49	47	48·2	-1·6		{ Salcombe	60	55	57·0	+2·4
	{ Scarborough	55	51	52·6	+1·2	IRELAND, N.W. ..	{ Sheephaven	58	54	56·9	+1·3
ENGLAND, E. ..	{ Shipwash Lightship	59	56	57·4	+2·0		{ Teelin	59	55	56·8	-0·8
	{ Margate‡	61	59	59·7	+0·3	IRELAND, S.W. ..	{ Cleggan	57	56	56·3	+1·4
ENGLAND, S.E. ..	Eastbourne‡	61	57	59·1	+1·1	IRELAND, E.	{ Seafield	65	56	59·7	+3·0
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-FOURTH WEEK—June 9th to June 15th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	68	40	55·7	46·3	50·7	− 1·5	61	− 12	0	− 1	5	+ 1	0·82	+0·20	2·8	−2·6	16	−15
Eastern.																		
1. SCOTLAND, EAST ...	64	40	57·5	46·9	51·8	− 1·7	69	− 12	0	0	6	+ 2	1·18	+0·68	1·3	−4·6	7	−27
2. ENGLAND, N.E.	69	42	60·6	48·1	53·9	− 0·5	83	− 4	0	0	6	+ 4	1·18	+0·77	4·5	−1·7	27	−10
3. ENGLAND, EAST ...	70	41	65·6	50·0	57·3	+ 1·2	107	+ 8	0	0	5	+ 2	0·56	+0·03	8·2	+1·7	50	+11
4. MIDLAND COUNTIES ...	70	40	64·5	47·5	55·4	− 0·8	94	− 5	0	0	5	+ 2	0·84	+0·38	6·4	+0·4	39	+ 2
5. ENGLAND, S.E.	71	39	64·4	50·7	57·1	− 0·1	106	+ 0	0	0	4	+ 1	1·09	+0·62	7·7	+1·0	47	+ 6
Western.																		
6. SCOTLAND, WEST ...	68	41	61·8	48·7	54·8	− 0·2	90	− 1	0	0	6	+ 3	1·40	+0·76	5·5	−1·1	32	− 6
7. ENGLAND, N.W.	70	40	62·4	48·4	54·9	− 0·8	90	− 6	0	0	6	+ 3	1·11	+0·64	6·5	−0·2	39	− 1
8. ENGLAND, S.W.	73	37	62·7	49·1	55·5	− 1·0	95	− 7	0	0	5	+ 2	1·05	+0·51	6·3	−0·6	39	− 3
9. IRELAND, NORTH ...	67	39	61·4	47·6	54·0	− 0·9	84	− 5	0	0	6	+ 2	1·05	+0·45	5·6	−0·2	33	− 2
10. IRELAND, SOUTH ...	69	39	62·9	47·9	54·8	− 1·5	90	− 10	0	0	6	+ 3	0·69	+0·13	7·0	+0·4	42	+ 3
11. ENGLAND CHANNEL ...	70	49	62·4	52·8	57·3	− 0·1	107	0	0	0	4	·0	0·21	−0·20	7·3	−0·8	45	− 5

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 2 Weeks, June 2nd to June 15th, 1912.

0. SCOTLAND, NORTH ...	68	39	*	*	*	*	120	− 20	0	− 2	8	+ 1	1·28	+0·10	2·5	−3·1	14	−17
Eastern.																		
1. SCOTLAND, EAST ...	64	32	*	*	*	*	126	− 29	0	− 1	11	+ 5	1·94	+0·99	0·9	−5·3	5	−29
2. ENGLAND, N.E	69	42	*	*	*	*	154	− 13	0	0	12	+ 7	2·66	+1·81	3·4	−2·8	20	−17
3. ENGLAND, EAST ...	70	40	*	*	*	*	199	+ 6	0	0	10	+ 4	1·61	+0·55	5·8	−0·9	36	− 5
4. MIDLAND COUNTIES ...	70	38	*	*	*	*	173	− 21	0	0	11	+ 6	2·49	+1·55	4·5	−1·6	27	−10
5. ENGLAND, S.E.	71	37	*	*	*	*	191	− 17	0	0	9	+ 3	2·46	+1·49	6·4	−0·4	40	− 3
Western.																		
6. SCOTLAND, WEST ...	69	38	*	*	*	*	167	− 8	0	0	10	+ 4	2·26	+1·04	4·1	−2·5	24	−15
7. ENGLAND, N.W.	70	38	*	*	*	*	163	− 22	0	0	12	+ 6	2·22	+1·31	4·8	−2·0	29	−12
8. ENGLAND, S.W.	73	35	*	*	*	*	172	− 27	0	0	10	+ 4	2·55	+1·51	5·7	−1·2	35	− 7
9. IRELAND, NORTH ...	67	35	*	*	*	*	155	− 18	0	0	10	+ 3	1·68	+0·52	4·8	−1·1	29	− 7
10 IRELAND, SOUTH ...	69	33	*	*	*	*	166	− 29	0	0	11	+ 5	1·78	+0·67	6·0	−0·5	37	− 3
11. ENGLAND CHANNEL ...	70	45	*	*	*	*	196	− 13	0	0	10	+ 3	2·36	+1·51	7·0	−1·0	44	− 6

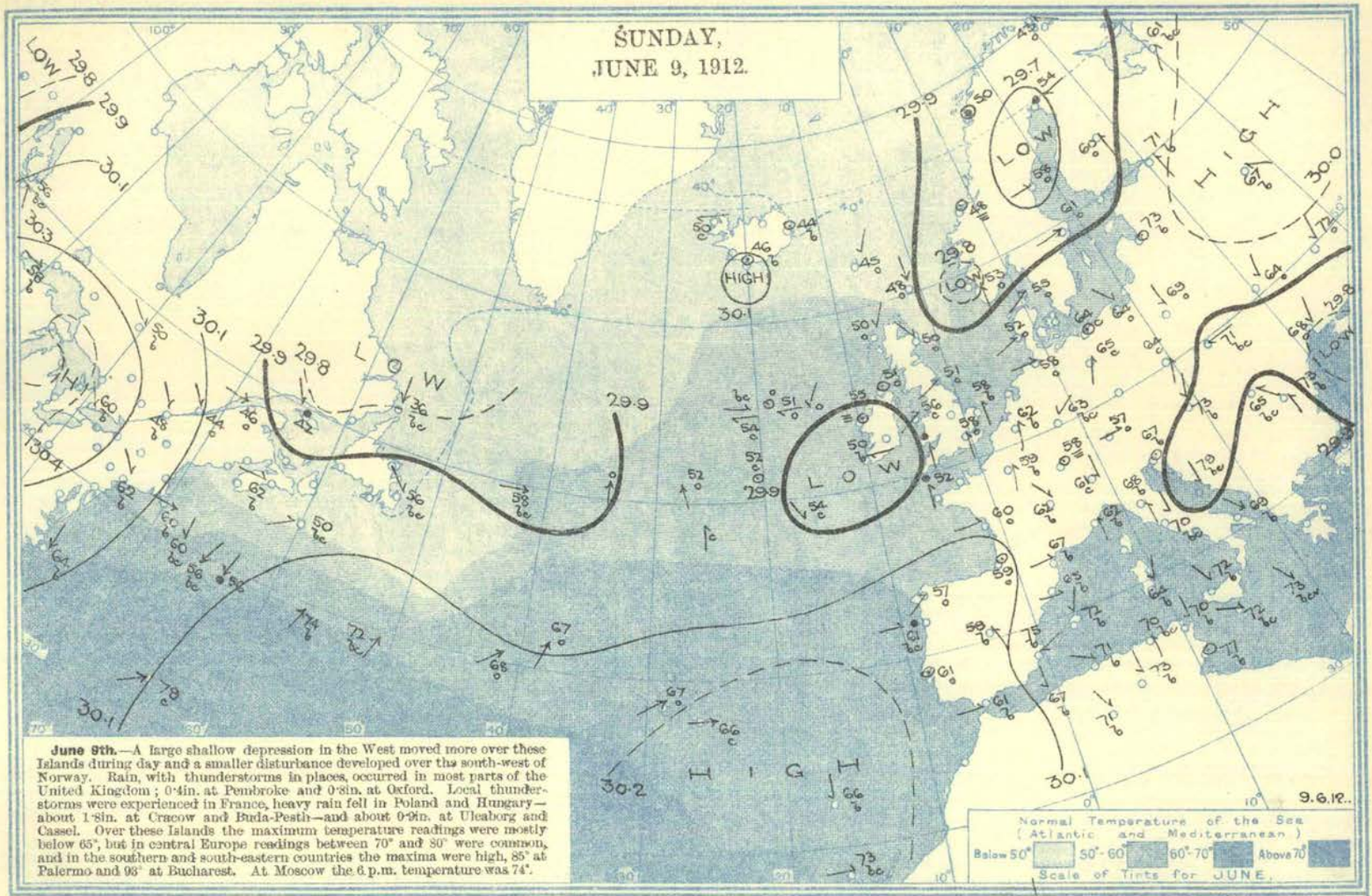
THE YEAR.—Aggregates, &c., for the Period of 24 Weeks, December 31st, 1911, to June 15th, 1912.

0. SCOTLAND, NORTH ...	71	7	*	*	*	*	608	+ 20	427	−130	112	+ 1	21·50	−0·52	3·2	−0·2	27	− 1
Eastern.																		
1. SCOTLAND, EAST ...	70	−5	*	*	*	*	732	+ 46	519	−101	101	+11	12·50	+0·38	3·4	−0·5	28	− 4
2. ENGLAND, N.E.	78	10	*	*	*	*	861	+142	373	−102	91	+ 9	12·32	+2·99	3·5	−0·6	29	− 5
3. ENGLAND, EAST ...	82	14	*	*	*	*	1,080	+196	274	−247	87	+ 6	9·83	+0·45	4·1	−0·2	34	− 2
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	1,025	+112	373	−160	87	+ 8	14·47	+3·82	3·5	−0·4	29	− 3
5. ENGLAND, S.E.	77	13	*	*	*	*	1,112	+137	218	−163	83	+ 6	13·24	+2·66	4·3	0·0	35	0
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	817	+ 50	329	− 96	100	+ 5	19·27	+0·23	3·6	−0·4	29	− 3
7. ENGLAND, N.W.	70	7	*	*	*	*	901	+ 92	298	− 88	93	+ 6	14·48	+1·28	3·8	−0·2	31	− 1
8. ENGLAND, S.W.	73	9	*	*	*	*	1,047	+ 83	189	−112	100	+14	18·77	+3·65	3·8	−0·6	32	− 4
9. IRELAND, NORTH ...	69	15	*	*	*	*	900	+ 67	237	−108	93	− 9	14·89	−0·23	3·4	−0·4	28	− 3
10. IRELAND, SOUTH ...	71	13	*	*	*	*	1,087	+ 73	167	− 92	112	+20	17·68	+1·05	4·0	−0·2	33	− 2
11. ENGLAND CHANNEL ...	76	27	*	*	*	*	1,393	+265	44	− 65	98	+ 4	15·86	+3·09	4·8	−0·3	40	− 3

NOTES ON TABLE IV.

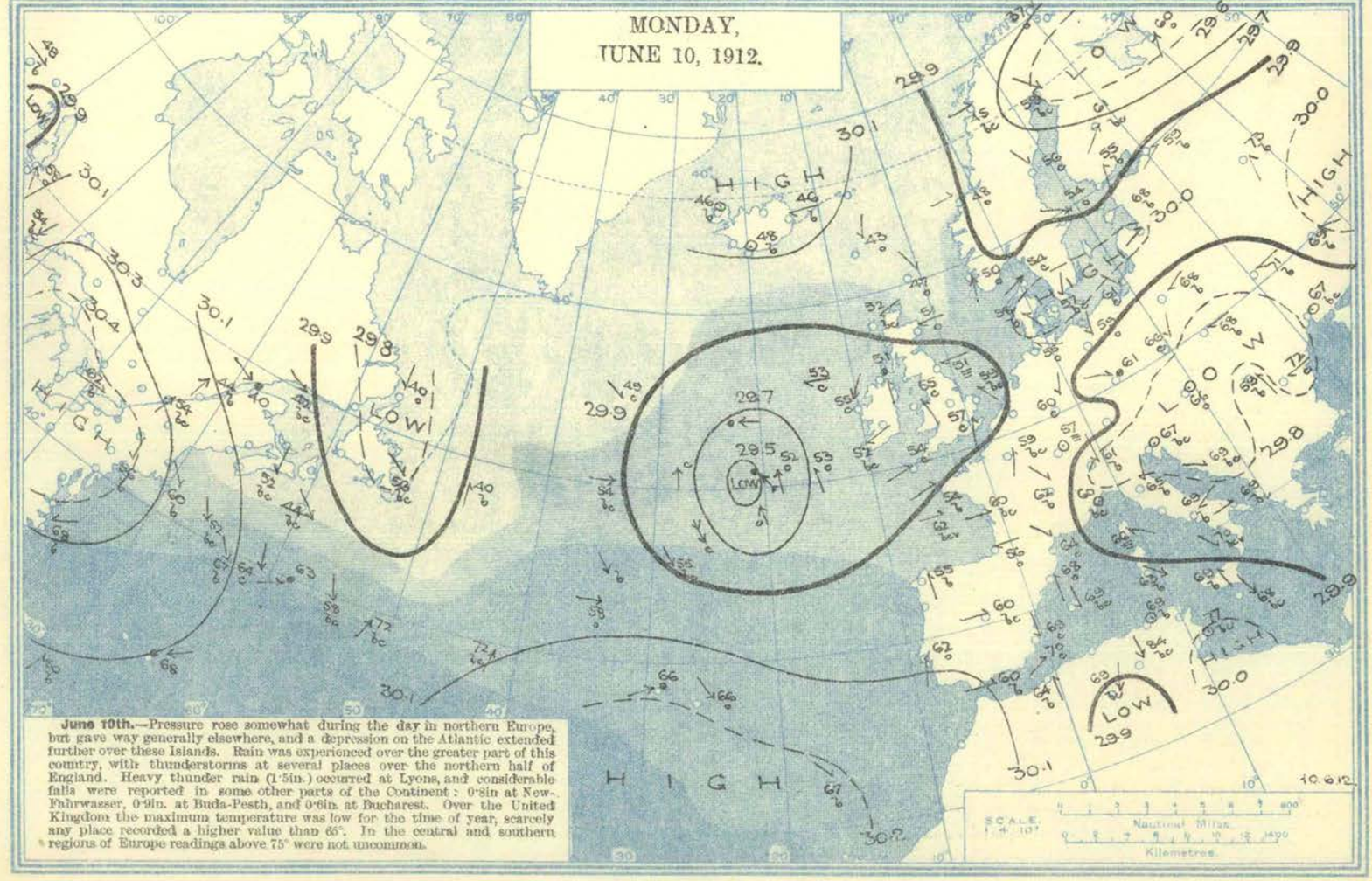
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

SUNDAY, JUNE 9, 1912.

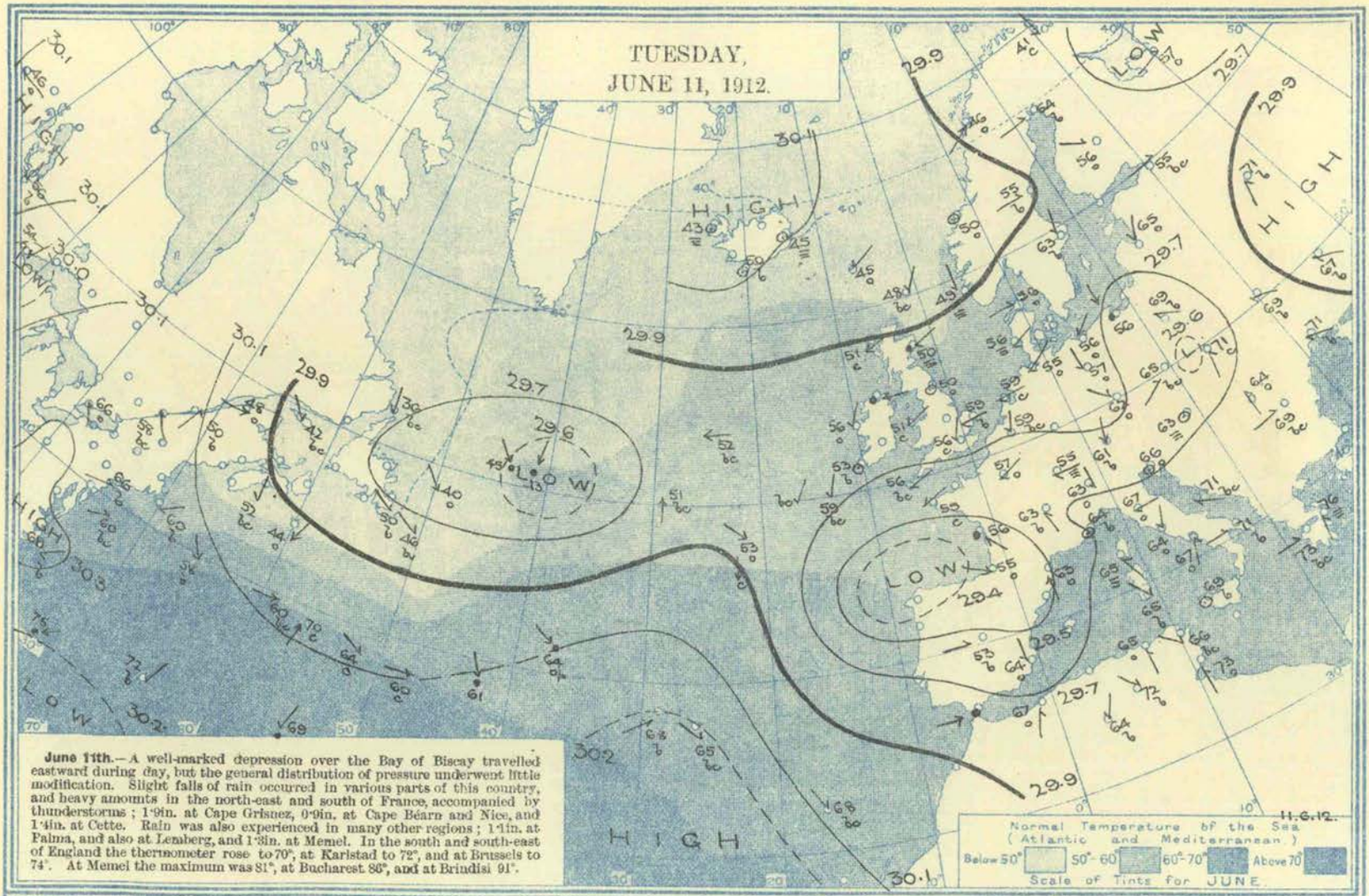


June 9th.—A large shallow depression in the West moved more over these Islands during day and a smaller disturbance developed over the south-west of Norway. Rain, with thunderstorms in places, occurred in most parts of the United Kingdom; 0·4in. at Pembroke and 0·3in. at Oxford. Local thunderstorms were experienced in France, heavy rain fell in Poland and Hungary—about 1·8in. at Cracow and Buda-Pesth—and about 0·9in. at Ulcaborg and Cassel. Over these Islands the maximum temperature readings were mostly below 65°, but in central Europe readings between 70° and 80° were common, and in the southern and south-eastern countries the maxima were high, 85° at Palermo and 93° at Bucharest. At Moscow the 6 p.m. temperature was 74°.

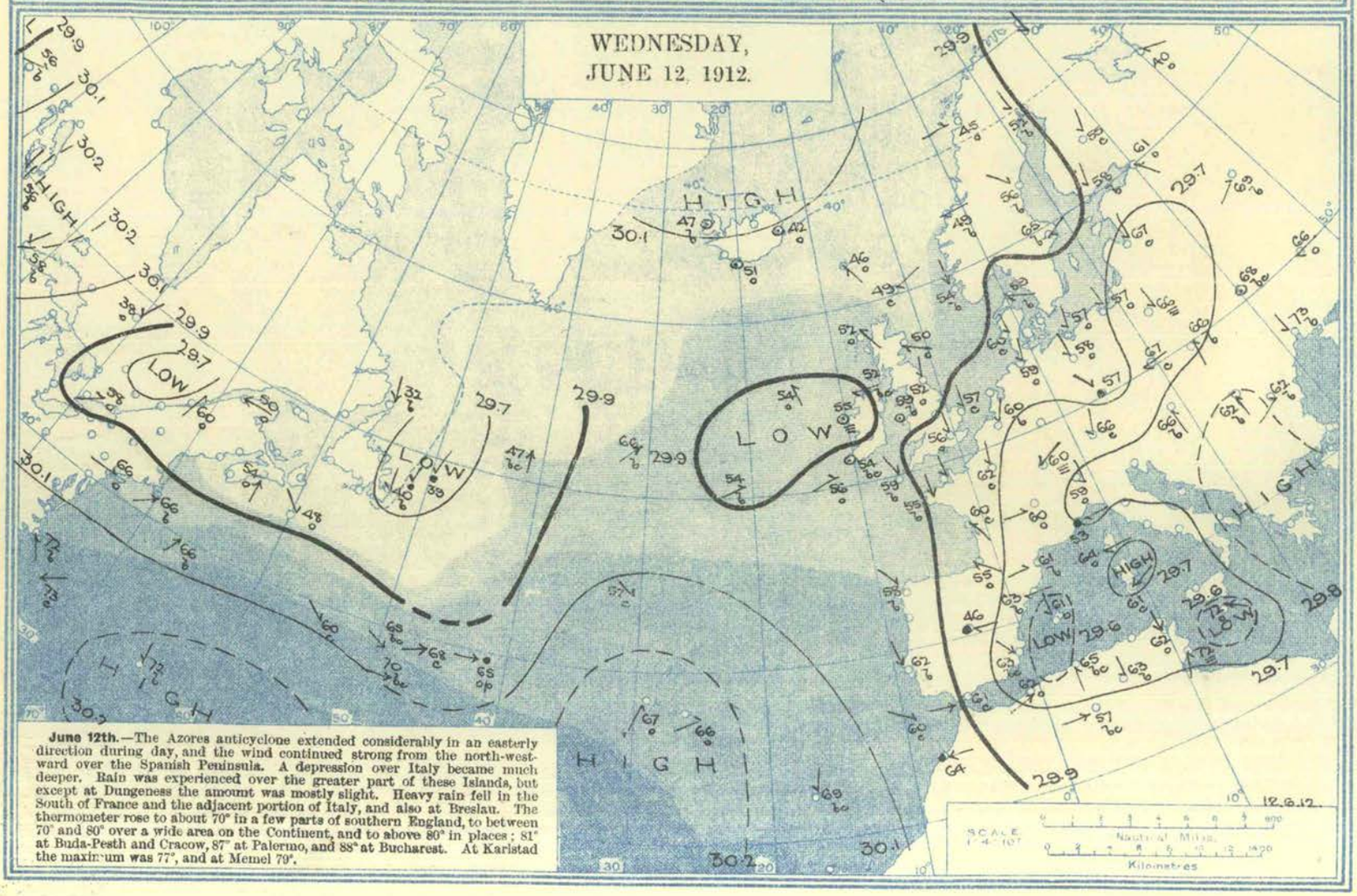
MONDAY, JUNE 10, 1912.



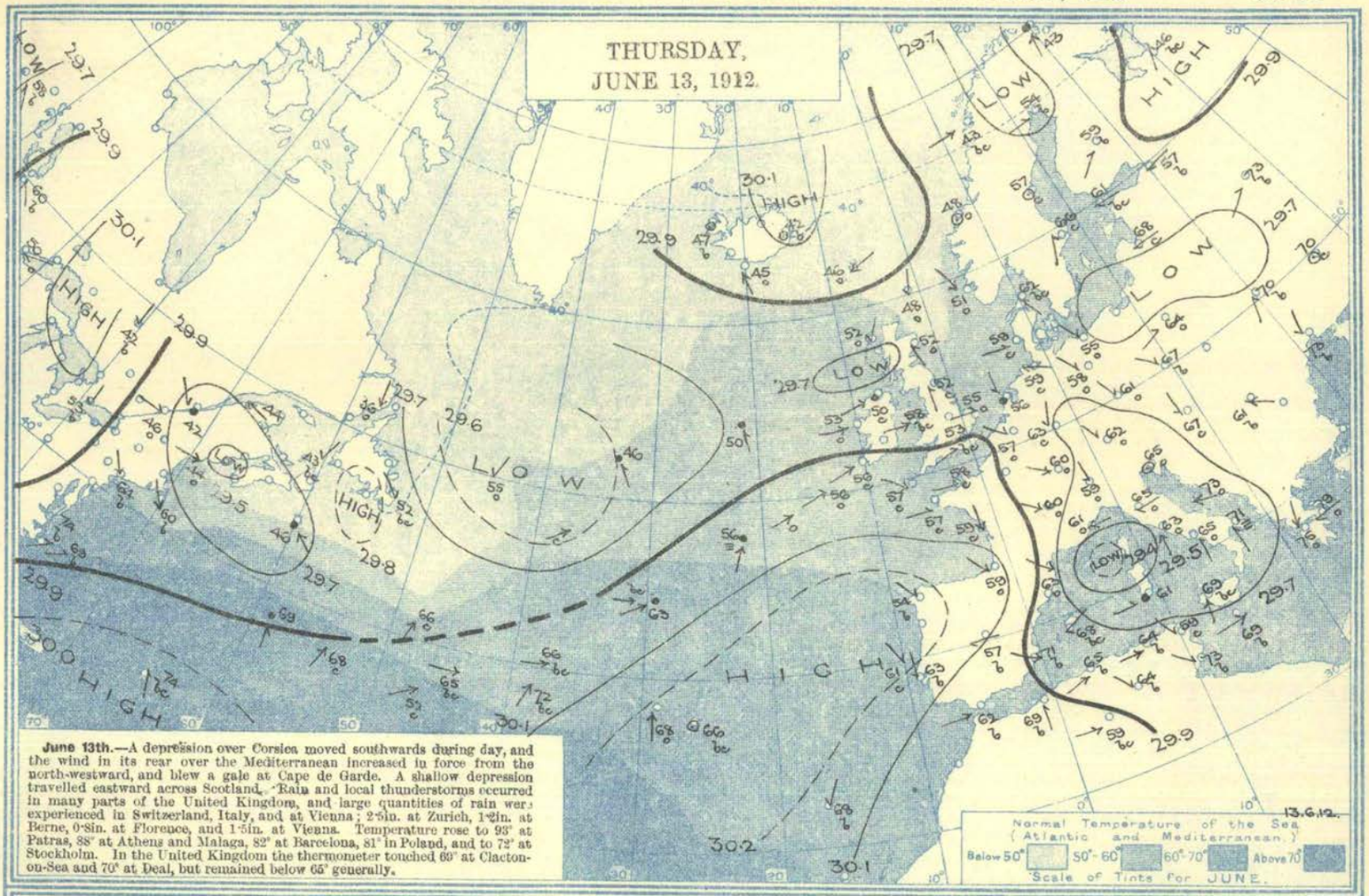
June 10th.—Pressure rose somewhat during the day in northern Europe, but gave way generally elsewhere, and a depression on the Atlantic extended further over these Islands. Rain was experienced over the greater part of this country, with thunderstorms at several places over the northern half of England. Heavy thunder rain (1·5in.) occurred at Lyons, and considerable falls were reported in some other parts of the Continent: 0·8in at New-Fahrwasser, 0·9in. at Buda-Pesth, and 0·6in. at Bucharest. Over the United Kingdom the maximum temperature was low for the time of year, scarcely any place recorded a higher value than 65°. In the central and southern regions of Europe readings above 75° were not uncommon.



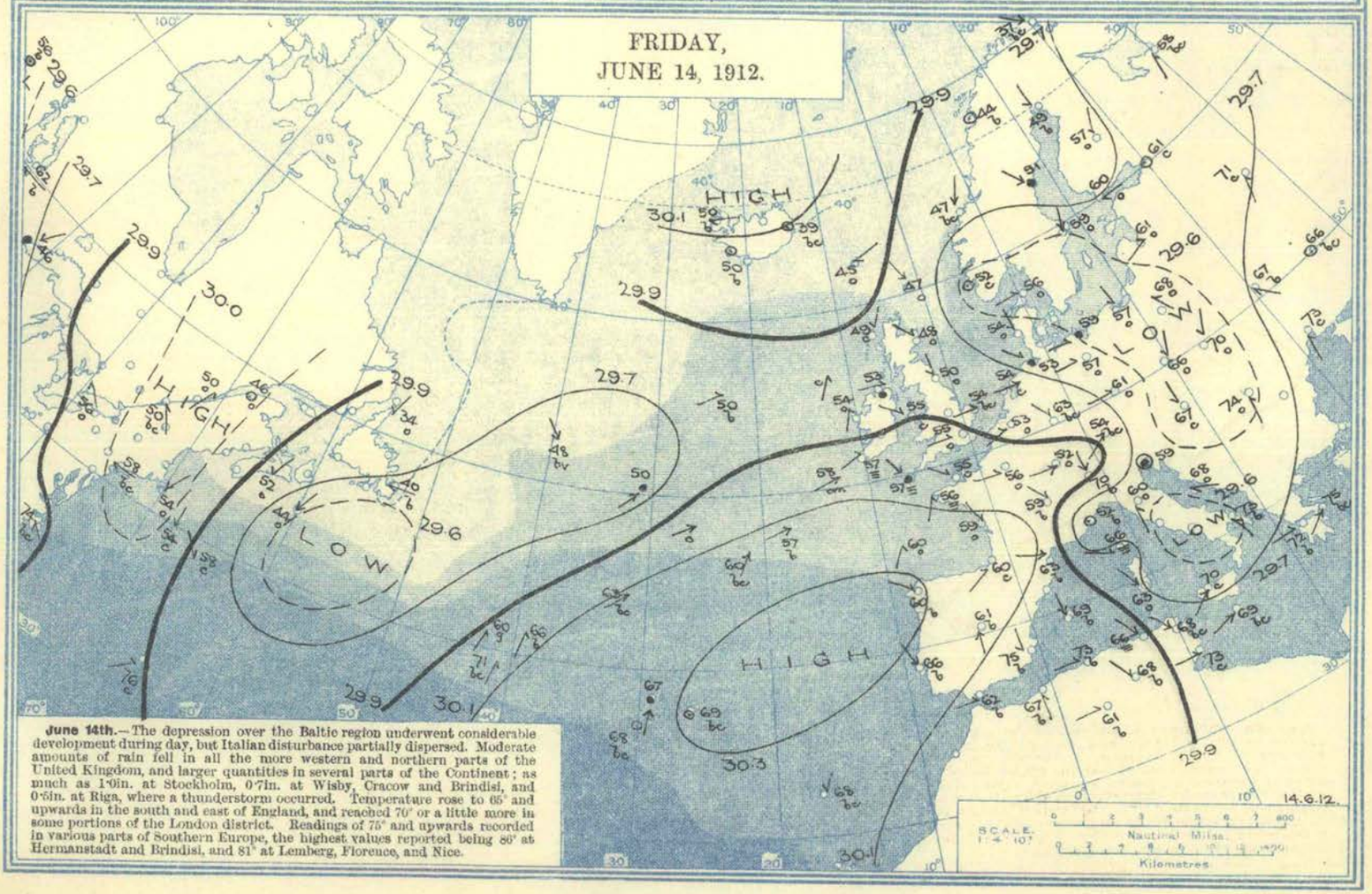
June 11th.—A well-marked depression over the Bay of Biscay travelled eastward during day, but the general distribution of pressure underwent little modification. Slight falls of rain occurred in various parts of this country, and heavy amounts in the north-east and south of France, accompanied by thunderstorms; 1·9in. at Cape Grisnez, 0·9in. at Cape Béarn and Nice, and 1·4in. at Cette. Rain was also experienced in many other regions; 1·1in. at Palma, and also at Lemberg, and 1·3in. at Memel. In the south and south-east of England the thermometer rose to 70°, at Karlstad to 72°, and at Brussels to 74°. At Memel the maximum was 81°, at Bucharest 86°, and at Brindisi 91°.



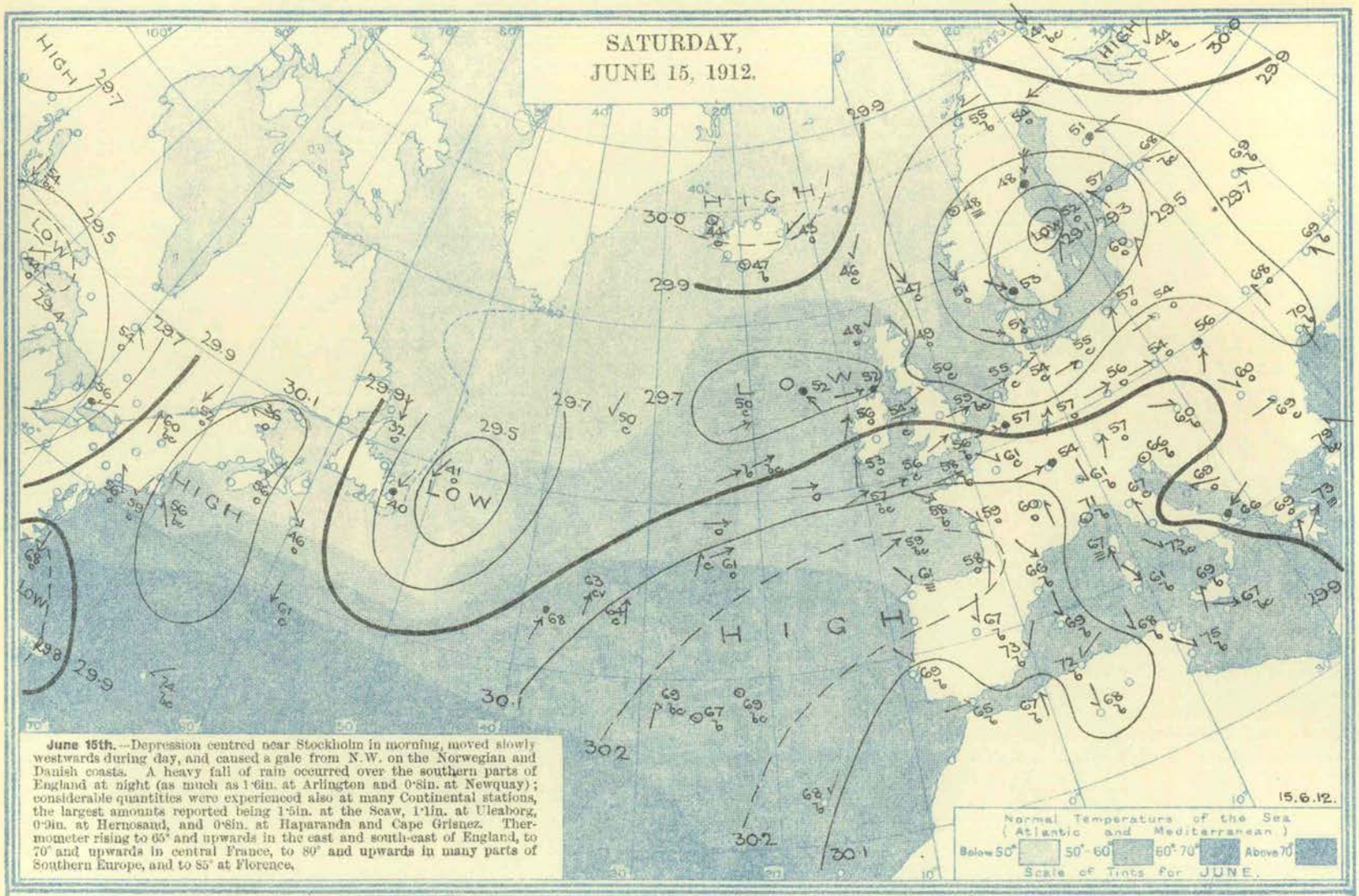
June 12th.—The Azores anticyclone extended considerably in an easterly direction during day, and the wind continued strong from the north-westward over the Spanish Peninsula. A depression over Italy became much deeper. Rain was experienced over the greater part of these Islands, but except at Dungeness the amount was mostly slight. Heavy rain fell in the South of France and the adjacent portion of Italy, and also at Breslau. The thermometer rose to about 70° in a few parts of southern England, to between 70° and 80° over a wide area on the Continent, and to above 80° in places; 81° at Buda-Pesth and Cracow, 87° at Palermo, and 88° at Bucharest. At Karlstad the maximum was 77°, and at Memel 79°.



June 13th.—A depression over Corsica moved southwards during day, and the wind in its rear over the Mediterranean increased in force from the north-westward, and blew a gale at Cape de Garde. A shallow depression travelled eastward across Scotland. Rain and local thunderstorms occurred in many parts of the United Kingdom, and large quantities of rain were experienced in Switzerland, Italy, and at Vienna; 2·5in. at Zurich, 1·2in. at Berne, 0·8in. at Florence, and 1·5in. at Vienna. Temperature rose to 93° at Patras, 88° at Athens and Malaga, 82° at Barcelona, 81° in Poland, and to 72° at Stockholm. In the United Kingdom the thermometer touched 69° at Clacton-on-Sea and 70° at Deal, but remained below 65° generally.

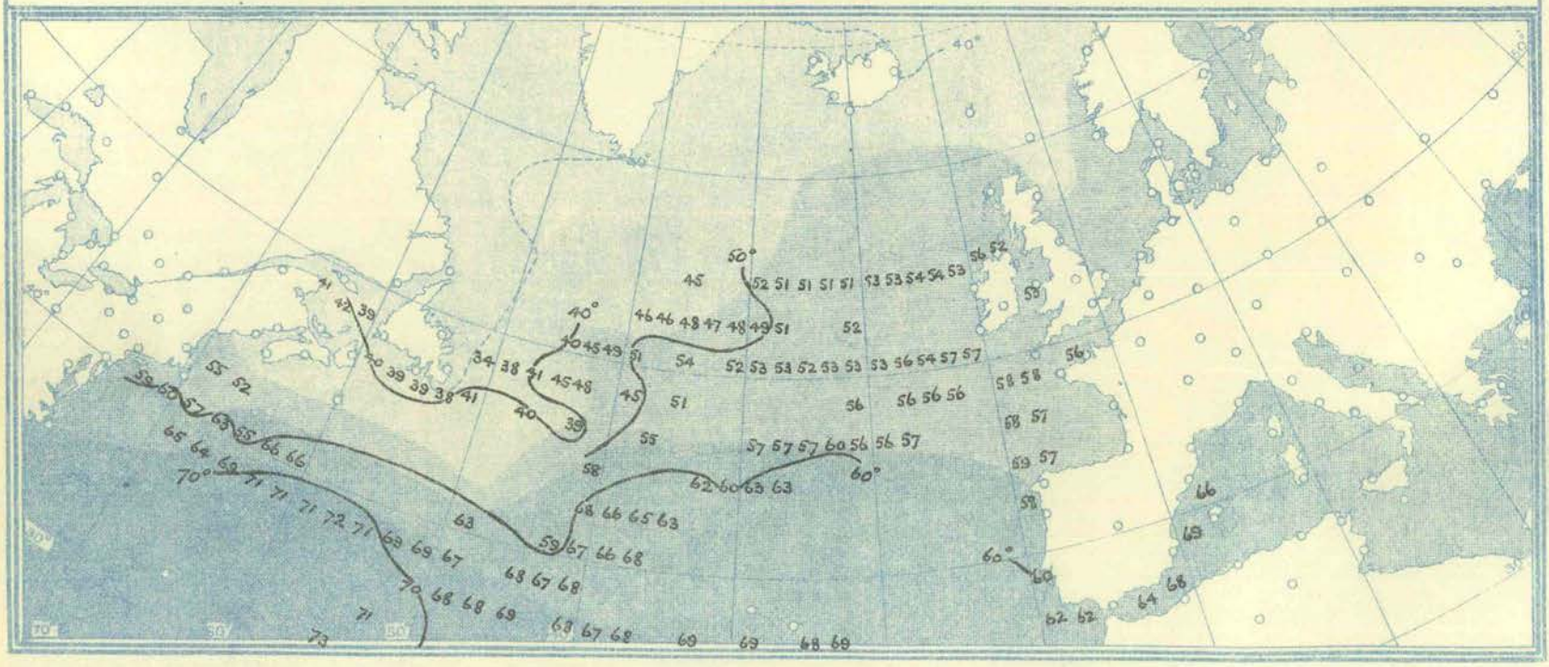


June 14th.—The depression over the Baltic region underwent considerable development during day, but Italian disturbance partially dispersed. Moderate amounts of rain fell in all the more western and northern parts of the United Kingdom, and larger quantities in several parts of the Continent; as much as 1·0in. at Stockholm, 0·7in. at Wisby, Cracow and Brindisi, and 0·5in. at Riga, where a thunderstorm occurred. Temperature rose to 65° and upwards in the south and east of England, and reached 70° or a little more in some portions of the London district. Readings of 75° and upwards recorded in various parts of Southern Europe, the highest values reported being 86° at Hermanstadt and Brindisi, and 81° at Lemberg, Florence, and Nice.



June 15th.—Depression centred near Stockholm in morning, moved slowly westwards during day, and caused a gale from N.W. on the Norwegian and Danish coasts. A heavy fall of rain occurred over the southern parts of England at night (as much as 1·6in. at Arlington and 0·8in. at Newquay); considerable quantities were experienced also at many Continental stations, the largest amounts reported being 1·5in. at the Scaw, 1·1in. at Ulealborg, 0·9in. at Hernosand, and 0·8in. at Haparanda and Cape Grisnez. Thermometer rising to 65° and upwards in the east and south-east of England, to 70° and upwards in central France, to 80° and upwards in many parts of Southern Europe, and to 85° at Florence.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 15TH. JUNE, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; e = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 25. TWENTY-FIFTH WEEK, SUNDAY, JUNE 16TH, TO SATURDAY, JUNE 22ND, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather was extremely unsettled in all the more western and northern parts of the United Kingdom, with frequent heavy rain in Ireland and the west of Scotland. Over the south-eastern quarter of England a decided improvement took place after the 17th, and for the remainder of the week the weather was mostly fair and dry. Thunderstorms occurred in several parts of England (chiefly in the south and east), on the 16th and 19th, and on the night of the 22nd or early morning of the 23rd.

Temperature was above the average in most of the English districts. In Ireland it was slightly below the normal, and in the west and north of Scotland it was considerably below it. In Scotland and at several places in the east and south-east of England the highest readings were observed on the 18th or 19th, but over the country generally they occurred more commonly on the 22nd. The absolute maxima ranged from 84° at Greenwich, 83° at Hampstead and Camden Square, and 80° or a little above it in many other parts of our eastern, midland and south-eastern counties to 68° in Ireland South and 67° in Scotland West. The lowest readings, which occurred very generally on the 16th or 17th, ranged from 35° in Scotland East, and 37° in Scotland West to 46° in England East, 47° in Ireland South and to 52° in the English Channel. At a depth of 1 foot the temperature of the soil was above the average at most of the English stations, but below it in Ireland and Scotland; at a depth of 4 feet the departure from the normal was generally very small.

Mean Temperature of the Sea. Off our south coasts the sea water was warmer than in the corresponding week of last year, and was above the average for the season. Elsewhere it was cooler, and differed but little from the normal.

Rainfall was in excess of the normal in all the western and northern districts. In Ireland North the total fall was considerably more than double the average, in Scotland West nearly three times as much, and in Ireland South more than three times as much. Amounts exceeding 1 in. were recorded in several parts of Ireland and the north-west of England on the 17th, as much as 1·7 in. at Stonyhurst, and 1·5 in. at Lancaster and Valencia. During a thunderstorm which occurred at Lincoln on the 19th the fall of rain and hail amounted in 20 minutes to 0·9 in.

Bright Sunshine exceeded the average in England East and South-East, but was deficient in all other districts. In England South-East the mean daily duration amounted to as many as 8 hours, and in England East to 8½ hours, but in Scotland and in the South of Ireland it was less than 3 hours, and failed to reach one sixth of the possible duration.

Barometer and Wind. At the commencement of the week a large complex depression lay over Northern Europe, while small secondary disturbances passed south-east across the United Kingdom, the wind being fresh to strong from West, veering to North-West and North. On the 17th a new depression which extended over these islands from the Atlantic caused a shift of wind to the South-Westward over Ireland and England, and to the South-Eastward in Scotland. With the subsequent departure of the disturbance towards the Norwegian coasts a general veering to the Westward took place, but towards the close of the week, when another depression appeared off the west of Ireland, the wind backed to the Southward and freshened considerably in the West.

THE WEEK.

For explanation of the terms "Unusual" &c., *see* p. 99.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Moderate	Unusual	Unusual	Unusual	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Unusual
	Rainfall ...	Heavy	Moderate	Heavy	Moderate	Moderate	Light	Very heavy	Heavy	Moderate	Very heavy	Very heavy	Light
	Sunshine ...	Scanty	Very scanty	Moderate	Abundant	Moderate	Moderate	Very scanty	Very scanty	Scanty	Scanty	Very scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 3 weeks from June 2nd, 1912.	Warmth ...	0*2	0*2	1*1	1*0	1*1	0*1	0*1	0*1	0*1	0*1	0*2	1*1
	Rainfall ...	1*0	2*0	3*0	1*0	2*0	2*1	3*0	3*0	2*0	2*0	3*0	1*1
	Sunshine ...	0*3	0*3	0*2	2*1	0*1	0*1	0*2	0*2	0*2	0*2	0*2	0*1

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6*2	7*2	10*2	10*2	10*2	10*2	8*2	9*2	10*2	9*2	9*1	10*1
	Rainfall ...	5*6	1*7	2*8	2*8	1*7	1*8	2*4	2*7	2*6	2*6	4*8	3*5
	Sunshine ...	7*3	6*4	9*3	9*3	9*3	9*2	6*4	10*3	10*2	8*3	8*2	9*2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1*6	2*4	4*2	4*2	4*2	4*4	2*5	2*4	4*3	2*4	2*5	4*4
	Rainfall ...	5*6	4*3	4*3	5*2	3*3	4*4	2*6	5*6	5*5	2*5	6*4	6*2
	Sunshine ...	5*2	5*2	5*4	6*3	4*3	7*2	3*3	7*3	6*3	4*2	3*4	2*5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4*2	4*3	5*3	6*1	6*3	6*2	5*4	6*3	6*1	7*3	5*4	9*1
	Rainfall ...	4*5	6*0	6*1	8*0	7*1	9*1	8*2	7*2	7*1	6*3	8*2	8*1
	Sunshine ...	4*2	3*5	2*4	3*9	3*7	2*10	3*6	4*4	2*6	5*3	2*4	2*5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6*2	7*2	8*1	8*0	8*1	7*1	6*2	7*1	7*2	7*2	7*2	8*0
	Rainfall ...	5*5	4*4	4*7	2*5	4*7	2*5	2*5	4*4	3*4	2*4	3*4	4*4
	Sunshine ...	4*3	4*3	2*7	3*4	3*5	6*3	3*2	5*4	3*4	2*6	3*4	4*5

(25046—24.) Wt. 173—814. 450. 6/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*55*	*19th*	*36*	*18th*	*52·0*	*42·7*	*47·0*	—	*35*	*0*	•	•	51·1	•	•	•	*6*	*0·96*	—	*4·8*	—	*26*	—	*Baltasound.*
a Lerwick	56	22nd	39	18th	52·1	44·0	47·8	- 1·8	41	0	•	•	•	•	•	•	4	1·22	—	4·2	- 2·8	23	- 5	Deerness.
a, Islands .. *a* Stornoway	60	19th	40	17th	56·4	46·6	51·2	- 1·2	64	0	•	•	•	•	•	•	6	1·37	+ 0·80	2·1	- 4·0	12	-22	Stornoway.
a Castlebay, Barra Isd. ..	*57*	*18, 19, 21*	*43*	*17th*	*55·9*	*49·4*	*52·4*	- *2·8*	*73*	*0*	•	•	•	•	•	•	*7*	*1·29*	—	*3·8*	—	*22*	—	*Castlebay.*
a Wick	64	18th	38	17th	56·4	44·4	50·0	- 2·2	56	0	•	•	•	•	•	•	6	0·28	- 0·17	•	•	•	•	
b, Main- *p* Strathpeffer ..	68	22nd	40	17th	60·6	46·4	53·0	- 1·2	77	0	•	•	•	•	•	•	7	0·83	+ 0·38	2·3	- 3·0	13	-17	Strathpeffer.
land. *p* Glencarron ..	61	21st	38	17th	56·1	46·8	51·1	- 1·9	64	0	•	•	•	•	•	•	7	1·97	+ 0·99	•	•	•	•	
p Fort Augustus..	69	22nd	38	17, 19	60·7	46·7	53·2	- 1·1	78	0	•	•	•	•	•	•	6	0·75	+ 0·38	2·5	- 1·9	14	-11	Fort Augustus.
p Fort William ..	67	22nd	40	17th	61·6	48·0	54·3	- 1·0	86	0	•	•	•	•	•	•	6	1·60	+ 0·73	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	72	22nd	41	17th	63·0	47·9	54·9	+ 0·2	90	0	1	29	54·0	-1·1	50·3	-1·7	—	—	—	2·5	—	14	—	Crathes S.
a Nairn	69	22nd	38	17th	61·4	46·6	53·5	- 1·0	81	0	•	•	•	•	•	•	5	0·55	+ 0·06	*3·1*	—	*18*	—	*Gordon Castle.*
a Aberdeen	66	18th	39	17th	61·4	47·6	54·0	+ 0·2	84	0	•	•	•	•	49·8	-0·7	7	0·80	+ 0·41	2·3	—	13	—	Nairn.
a Balmoral	68	22nd	35	17th	60·7	44·1	51·8	- 0·5	69	0	0	32	•	•	•	•	6	0·90	+ 0·25	3·6	- 2·5	21	-15	Aberdeen.
p Crieff	69	18th	38	17th	61·7	46·0	53·3	- 2·7	79	0	•	•	•	•	•	•	6	0·51	+ 0·04	•	•	•	•	Balmoral.
a Leith	65	18th	45	16, 17	62·1	49·6	55·4	- 0·5	94	0	•	•	•	•	•	•	6	0·90	+ 0·25	1·9	—	11	—	Balruddery.
p West Linton .. S	64	18th	37	17th	59·7	46·3	52·5	- 0·6	74	0	0	35	•	•	•	•	7	0·56	+ 0·12	•	•	•	•	
p Marchmont .. S	66	18th	41	17th	61·9	46·0	53·4	- 0·2	80	0	0	38	54·1	-1·7	•	•	7	0·68	—	*2·1*	•	*12*	•	*West Linton.*
																	6	0·70	+ 0·17	3·4	- 2·8	20	-16	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	70	22nd	43	17th	63·9	49·1	56·0	+ 1·5	98	0	0	35	54·5	-1·2	51·5	-1·2	7	0·69	+ 0·21	4·4	—	26	—	Cockle Park.
a Shields	71	22nd	42	17th	63·6	48·4	55·5	+ 0·8	95	0	•	•	•	•	•	•	7	0·77	+ 0·29	•	•	•	•	*Newcastle.*
p Durham	73	22nd	42	17th	63·9	46·9	54·8	- 0·9	90	0	0	38	•	•	•	•	5	0·65	+ 0·22	3·9	- 1·9	23	-11	Durham.
a, North .. *p* Rounton	73	19, 22	42	17th	65·4	49·7	57·0	+ 2·9	105	0	0	36	57·2	•	•	•	5	1·12	+ 0·66	•	•	•	•	Rounton.
a West Witton	*74*	*22nd*	*43*	*17th*	*64·9*	*50·1*	*57·0*	—	*105*	*0*	0	39	57·8	•	51·2	•	*6*	*0·78*	—	•	•	•	•	*West Witton.*
p Scarborough	76	22nd	47	17th	65·7	52·0	58·4	+ 2·7	115	0	•	•	•	•	54·3†	•	3	0·45	+ 0·03	5·6	—	33	—	Scarborough.
p York	76	22nd	47	17th	67·7	51·0	58·8	+ 1·2	118	0	•	•	57·0	+0·1	53·6	+0·5	5	1·50	+ 1·00	5·4	- 0·5	32	- 3	York.
a Spurn Head	69	22nd	48	17th	64·1	51·6	57·4	+ 1·5	108	0	0	42	58·0	+0·5	52·1	-0·2	3	0·98	+ 0·62	*4·3*	—	*25*	—	*Hull.*
b, South .. *a* Lincoln	80	22nd	49	17th	69·1	51·9	59·9	+ 1·4	125	0	•	•	57·7	-0·1	53·4	-0·3	5	1·32	+ 0·86	•	•	•	•	Lincoln.
a Fulbeck	78	22nd	47	17th	68·7	50·4	58·9	+ 0·9	118	0	0	45	59·2	-1·9	54·0	-1·4	4	0·39	- 0·05	6·4	—	38	—	Rauceby.
											•	•	•	•	•	•				7·9	—	47	—	Skegness.
											0	43	61·0	•	56·1	•	—	—	—	*8·5*	—	*51*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	79	19, 22	46	17th	69·6	50·4	59·3	+ 3·0	121	0	•	•	•	•	•	•	3	0·40	—	8·1	—	49	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	73	19th	47	17th	67·3	52·6	59·4	+ 2·6	122	0	•	•	61·7	-0·6	57·3	-0·9	3	0·31	- 0·11	8·9	—	54	—	Yarmouth.
a Norwich	80	22nd	47	17th	70·7	51·6	60·5	+ 3·5	130	0	0	41	61·2	•	•	•	4	0·28	—	*7·7*	—	*46*	—	*Norwich.*
p Geldeston	79	19th	47	17th	71·1	51·4	60·6	+ 3·4	130	0	•	•	•	•	•	•	2	0·11	- 0·32	7·9	+ 1·6	48	+ 6	Geldeston.
p Cambridge	80	19, 22	48	17th	70·9	50·9	60·2	+ 1·3	127	0	0	44	62·3	+2·4	57·3	+1·1	3	0·28	- 0·20	8·6	+ 2·0	52	+12	Cambridge.
a Felixstowe	*74*	*18th*	*50*	*16, 17*	*68·3*	*53·4*	*60·3*	+ *2·4*	*128*	*0*	•	•	•	•	•	•	*3*	*0·17*	—	*8·7*	—	*53*	—	*Felixstowe.*
a Clacton-on-Sea ..	74	18th	50	17th	68·4	53·7	60·5	+ 2·8	130	0	0	40	60·1	+1·2	56·5	0·0	2	0·21	—	9·0	—	55	—	Clacton.
b, South .. *a* Rothamsted	78	19th	47	17th	70·4	51·0	60·0	+ 2·5	126	0	•	•	•	•	•	•	2	0·12	- 0·38	8·6	+ 2·2	52	+13	Rothamsted.
a Shoeburyness	*78*	*22nd*	*50*	*16, 17, 18*	*70·6*	*53·6*	*61·0*	+ *1·1*	*133*	*0*	0	49	62·7	+1·4	•	•	*2*	*0·17*	- *0·23*	*9·1*	—	*55*	—	*Southend.*
p Tottenham	80	19, 22	50	16th	72·1	53·1	61·9	+ 3·6	139	0	0	48	•	•	57·4	+0·3	2	0·11	—	8·5	—	52	—	Tottenham.
4. MIDLAND COUNTIES.																								
											0	42	57·6	-0·1	51·4	-0·6	—	—	—	*4·9*	—	*29*	—	*Huddersfield.*
a Harrogate	73	22nd	43	17th	65·4	49·9	57·1	+ 1·4	106	0	0	39	55·5	+0·9	53·0	+0·4	5	0·80	+ 0·26	5·1	—	30	—	Harrogate.
a Bawtry	79	22nd	47	17th	68·6	52·3	59·9	+ 2·0	125	0	0	43	58·1	•	54·6	•	4	0·79	+ 0·36	4·0	- 1·5	24	- 9	Worksop.
p Buxton	*73*	*22nd*	*43*	*17th*	*63·9*	*49·1*	*56·0*	+ *2·6*	*98*	*0*	0	39	56·8	+0·8	50·8	0·0	*6*	*1·25*	+ *0·52*	*4·7*	—	*28*	—	*Buxton.*
a East .. *a* Nottingham	79	22nd	47	17th	68·9	50·9	59·3	+ 1·5	121	0	0	44	59·1	+0·7	54·9	+0·4	5	0·31	- 0·15	5·3	—	32	—	Nottingham.
p Birmingham, Edgbsn.	76	22nd	47	16th	66·3	51·3	58·3	+ 1·3	114	0	0	41	53·4	-0·1	50·3	+0·2	4	0·41	- 0·09	4·6	—	28	—	Birmingham.
a Raunds	81	22nd	46	17th	72·1	50·3	60·4	+ 2·3	129	0	0	40	59·3	•	53·9	•	2	0·13	—	•	•	•	•	Raunds.
a Oxford	78	22nd	49	17th	69·1	52·1	60·0	+ 1·3	126	0	0	—	•	•	•	•	3	0·23	- 0·28	7·3	+ 0·8	45	+ 5	Oxford.
											0	40	56·7	+0·4	51·1	-0·3	—	—	—	5·2	—	31	—	Sheffield.
a Cheadle	75	22nd	47	16th	67 ?	50 ?	57·9	+ 2·0	111	0	0	39	•	•	•	•	4	1·04	+ 0·44	•	•	•	•	Cheadle.
p Shrewsbury	76	22nd	45	17th	66·9	50·9	58·3	+ 0·6	114	0	0	43	•	•	•	•	3	0·13	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	74	22nd	46	17th	69·6	51·0	59·7	+ 1·3	124	0	0	41	•	•	•	•	2	0·05	- 0·45	•	•	•	•	Hereford.
a Cirencester	75	22nd	47	16th	67·1	49·6	57·7	+ 0·8	110	0	0	45	57·2	•	54·3	•	2	0·34	- 0·20	6·9	+ 0·4	42	+ 3	Cirencester.
a Bath	76	22nd	50	16th	68·7	52·7	60·1	+ 1·7	127	0	•	•	60·7	+0·5	57·0	+0·2	4	0·23	- 0·31	7·5	—	46	—	Bath.
5. ENGLAND, S.E.																								
											0	43	62·7	+3·6	57·0	+0·4	—	—	—	•	•	•	•	Canterbury.
p Kew	79	19, 22	49	17th	70·9	52·7	61·2	+ 2·5	134	0	0	40	60·9	+1·5	55·5	+0·5	2	0·08	- 0·42	8·2	+ 1·7	50	+11	Kew.
a Marlborough	75	22nd	43	17th	68·1	49·9	58·4	+ 1·5	115	0	0	40	•	•	•	•	2	0·07	- 0·50	7·1	+ 1·1	43	+ 7	Marlborough.
a Margate	80	19, 22	50	16, 17	71·6	52·8	61·4	+ 3·1	136	0	•	•	60·0	+1·2	55·6	-0·2	3	0·11	- 0·31	8·3	+ 2·1	51	+13	Margate.
a Wisley, Surrey ..	80	19th	48	22nd	71·3	50·6	60·2	+ 0·5	127	0	0	38	61·3	+1·6	56·8	+0·5	3	0·07	—	8·6	—	53	—	Wisley
a Swarraton	75	22nd	48	17, 19, 22	67·6	49·9	58·1	+ 0·9	113	0	0	44	61·6	+0·2	57·1	+0·4	2	0·08	- 0·42	7·8	—	48	—	Worthing.
a Tunbridge Wells ..	82	19th	43	16th	70·7	48·1	58·6	+ 0·8	116	0	0	41	61·3	-0·1	•	•	2	0·07	- 0·43	8·9	+ 2·2	55	+14	Tunbridge Wells.
a Dungeness	72	22nd	48	17th	65·0	53·4	58·8	+ 1·1	118	0	•	•	•	•	•	•	1	0·41	+ 0·07	8·2	—	50	—	Littlestone.
p Hastings..	75	22nd	49	17th	66·6	52·1	58·9	+ 0·8	118	0	0	45	62·5	•	57·7	•	3	0·09	- 0·35	*7·8*	+ *0·2*	*48*	+ *1*	*Hastings.*
p Southampton	75	22nd	50	17th	67·6	52·4	59·5	- 0·8	123	0	0	45	•	•	•	•	2	0·07	- 0·40	7·3	+ 0·3	45	+ 2	Southampton.
a Ventnor	71	22nd	51	16, 19	66·3	53·0	59·2	+ 0·1	120	0	•	•	•	•	•	•	3	0·10	- 0·35	7·0	+ 0·5	43	+ 3	Ventnor.
											0	46	61·3	-0·4	57·6	-0·2	—	—	—	*7·7*	—	*47*	—	*Portsmouth.*
											•	•	60·6	•	57·1	•	—	—	—	8·3	+ 0·9	51	+ 6	Eastbourne.
											•	•	59·1	•	57·7	•	—	—	—	*6·9*	—	*42*	—	*Bournemouth.*
											0	43	•	•	58·2	•	—	—	—	*6·9*	- *0·5*	*42*	- *3*	*Brighton.*
LONDON.																								
a Westminster	*79*	*19th*	*50*	*16, 17*	*72·0*	*52·9*	*61·8*	+ *2·4*	*139*	*0*	0	46	•	•	•	•	*1*	*0·04*	- *0·46*	*8·3*	+ *2·7*	*51*	+*16*	*Westminster.*
a Greenwich	*84*	*19th*	*48*	*22nd*	*74·0*	*50·9*	*61·7*	+ *1·7*	*138*	*0*	0	38	•	•	•	•	*2*	*0·08*	- *0·39*	*9·2*	+ *2·5*	*56*	+*15*	*Greenwich.*
a Hampstead	*83*	*19th*	*48*	*16, 17*	*72·3*	*50·6*	*60·7*	—	*131*	*0*	0	34	•	•	•	•	*2*	*0·18*	—	*8·2*	—	*50*	—	*Hampstead.*
a Camden Square ..	*83*	*19, 22*	*49*	*17th*	*74·0*	*51·7*	*62·1*	—	*141*	*0*	0	47	•	•	•	•	*2*	*0·15*	—	*7·8*	—	*48*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	63	18th	37	17th	58·0	48·3	52·8	- 3·2	76	0	•	•	•	•	•	•	6	2·36	+ 1·66	•	•	•	•	
p Glasgow	66	18th	41	17th	60·1	49·0	54·2	- 1·5	85	0	0	32	•	•	•	•	6	1·38	+ 0·78	2·3	- 3·1	13	-18	Glasgow.
p Rothesay	66	18th	39	17th	60·0	48·6	53·9	- 2·3	83	0	•	•	•	•	52·1	-0·8	6	2·84	+ 2·12	•	•	•	•	
a Kilmarnock	67	18th	37	17th	61·6	48·9	54·8	- 0·9	90	0	•	•	•	•	•	•	6	1·36	—	*2·9*	—	*17*	—	*Kilmarnock.*
a Colmonell	66	18th	44	17th	60·0	49·0	54·1	- 1·7	85	0	0	40	•	•	•	•	6	2·30	+ 1·72	•	•	•	•	
p Dumfries	63	20th	41	17th	60·0	49·9	54·6	- 2·3	88	0	0	33	58·1	•	55·0	•	6	1·20	+ 0·66	*2·1*	—	*12*	—	*Dumfries.*
p Cally, Gatehouse ..	62	16, 22	40	18th	60·3	46·7	53·0	- 3·1	77	0	•	•	•	•	•	•	6	2·87	+ 2·19	•	•	•	•	
b I. OF MAN.																								
p Douglas	63	20th	41	17th	58·7	50·0	54·1	- 1·5	85	0	0	39	•	•	•	•	6	2·51	+ 1·90	3·2	- 4·1	50	-24	Douglas.
											0	41	55·8	-0·2	51·3	-0·5	—	—	—	*3·9*	—	*23*	—	*Burnley.*
											0	43	•	•	•	•	—	—	—	4·4	—	26	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	65	19, 22	47	17th	61·3	51·0	55·8	+ 0·3	97	0	0	39	58·8	•	52·9	•	6	1·24	+ 0·66	2·9	—	17	—	Aspatria.
p Newton Rigg	70	22nd	40	17th	63·7	47·3	54·9	+ 0·2	96	0	1	30	57·6	0·0	52·2	-0·5	5	0·52	+ 0·03	3·4	- 3·5	20	-21	Newton Rigg.
p Stonyhurst	73	22nd	45	17th	63·6	51·3	57·0	+ 0·6	105	0	0	37	•	•	•	•	6	1·95	+ 1·25	2·7	- 3·8	16	-23	Stonyhurst.
p Blackpool	71	19th	49	16, 17	63·3	53·0	57·8	+ 0·8	111	0	0	43	57·6	•	53·0	•	6	1·11	+ 0·61	4·4	- 2·2	26	-13	Blackpool.
p Manchester (Whit Pk.)	*78*	*22nd*	*48*	*17th*	*67·3*	*53·1*	*59·7*	—	*124*	*0*	*0*	*39*	•	•	•	•	*6*	*1·14*	+ *0·51*	*3·6*	—	*22*	—	*Whit Park.*
a Liverpool (Bidston) ..	73	22nd	47	16th	65·0	52·0	58·1	+ 0·9	113	0	•	•	•	•	•	•	3	0·39	- 0·14	*5·4*	—	*32*	—	*Liverpool.*
a Hawarden Bridge ..	76	22nd	48	16, 17	66·4	52·9	59·2	+ 1·3	120	0	0	45	61·1	+0·3	56·9	-0·5	1	0·20	- 0·24	*4·7*	- *2·1*	*28*	-*13*	*Southport.*
											0	43	58·2	+0·2	54·6	0·0	—	—	—	*3·8*	—	*23*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	67	18, 22	48	16th	63·9	53·3	58·2	+ 0·6	113	0	•	•	•	•	•	•	2	0·64	+ 0·19	4·2	- 2·5	25	-15	Llandudno.
a Holyhead	63	22nd	48	16, 17	60·4	51·4	55·6	- 0·7	95	0	•	•	•	•	•	•	6	1·62	+ 1·12	3·8	—	23	—	Aberdovey.
p Bettws-y-Coed ..	70	22nd	40	17th	63·0	50·6	56·4	- 0·6	101	0	0	43	55·4	-0·3	52·1	-0·1	5	1·16	—	3·1	—	19	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	*			3·2	—	19	—	
a Llangammarch Wells	73	22nd	40	17th	64·3	47·9	55·5	− 0·9	95	0	0	36	54·7	−3·2	51·0	−0·8	5	0·71	—	4·8	—	29	—	Aberystwyth.
a Pembroke	60	16, 22	51	16th	58·7	52·9	55·6	− 0·5	95	0	*	*	*	*	*	*	6	0·91	+ 0·45	2·6	− 4·9	16	−30	Llangammarch
p Cardiff	71	22nd	47	16th	65·3	52·4	58·4	− 0·5	115	0	0	48	59·5	− 0·4	55·9	+0·1	4	0·42	− 0·19	*6·5*	—	*40*	—	Pembroke.[Wells
b, ENGLAND, S.W.																								*Cardiff.*
a Clifton	77	22nd	49	16th	67·6	53·3	60·0	+ 1·1	126	0	0	48	*	*	*	*	4	0·28	− 0·27	*6·4*	—	*39*	—	*Clifton.*
a Shaftesbury	72	22nd	46	16th	65·4	49·3	56·8	− 0·1	104	0	*	*	58·8	*	*	*	3	0·41	− 0·14	*	*	*	*	Shaftesbury.
a Arlington	76	22nd	47	16th	63·6	50·1	56·4	+ 0·8	101	0	*	*	58·4	*	*	*	4	2·25	+ 1·52	4·7	− 2·6	29	−16	Newquay.
a Cullompton	72	18, 22	48	21st	68·0	51·4	59·1	+ 1·0	120	0	0	45	59·5	*	*	*	4	0·33	− 0·17	5·0	− 1·5	31	− 9	Cullompton.
a Portland	64	19, 22	51	16th	60·7	53·4	56·8	− 0·4	104	0	*	*	*	*	*	*	2	0·10	—	*8·7*	—	*53*	—	*Weymouth.*
p Plymouth	67	19th	49	19th	62·9	52·9	57·6	− 1·3	109	0	0	45	60·3	−0·4	*	*	4	0·69	+ 0·19	5·8	− 1·2	36	− 7	Plymouth.
p Falmouth	66	22nd	53	16, 17, 21	63·0	54·1	58·2	+ 0·4	113	0	*	*	*	*	*	*	4	0·35	− 0·21	5·1	− 2·4	32	−15	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	64	22nd	45	17th	58·9	49·4	53·8	− 0·4	83	0	*	*	*	*	*	*	6	0·69	+ 0·18	*	*	*	*	
a Blacksod Point ..	62	19th	46	17th	59·9	51·0	55·1	− 0·7	92	0	*	*	*	*	*	*	7	2·11	+ 1·50	*	*	*	*	
p Markree Castle ..	68	22nd	39	16th	63·4	48·0	55·7	+ 0·8	96	0	0	38	58·6	*	53·7	*	7	1·98	+ 1·31	4·0	− 1·5	24	− 9	Markree Castle.
a Birr Castle ..	64	18, 19, 22	47	16th	62·3	51·6	56·6	− 0·1	102	0	*	*	*	*	*	*	6	1·31	+ 0·76	*2·3*	*− 3·3*	*14*	*−20*	*Birr Castle.*
b, East .. *p* Armagh	69	18th	43	17th	62·7	50·6	56·2	+ 0·2	99	0	0	35	57·4	−0·7	53·6	−0·7	6	1·31	+ 0·73	2·9	− 2·8	17	−16	Armagh.
a Donaghadee	66	18th	42	17th	60·7	49·3	54·6	− 1·0	88	0	*	*	*	*	*	*	6	1·52	+ 0·99	*	*	*	*	
											0	41	58·5	+0·2	55·1	+0·2	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	34	*	*	*	*	—	—	—	2·4	− 4·1	14	−25	Phœnix Park.
a, East .. *p* Dublin, City	67	18th	48	16th	63·9	54·0	58·6	+ 0·2	116	0	0	45	*	*	*	*	7	0·66	+ 0·22	*	*	*	*	Dublin City.
a Kilkenny	65	18, 19	48	16, 17	62·4	51·6	56·6	− 0·7	102	0	*	*	*	*	*	*	7	0·95	+ 0·39	*	*	*	*	
a Waterford	65	16th	48	16th	61·4	51·7	56·2	− 1·5	99	0	*	*	*	*	*	*	7	1·89	+ 1·24	*	*	*	*	
a Birr Castle	64	18, 19, 22	47	16th	62·3	51·6	56·6	− 0·1	102	0	*	*	*	*	*	*	6	1·31	+ 0·76	2·3	− 3·3	14	−20	Birr Castle.
a Foynes	67	22nd	49	17th	62·0	53·7	57·6	+ 0·1	109	0	*	*	*	*	*	*	6	2·47	+ 1·91	*	*	*	*	
b, West .. *a* Cahir	67	19th	47	20th	63·7	51·4	57·1	+ 0·1	106	0	*	*	*	*	*	*	7	1·39	—	*	*	*	*	
a Killarney	68	22nd	51	16, 17	64·1	54·0	58·7	+ 1·8	117	0	*	*	*	*	*	*	7	3·16	+ 2·49	*	*	*	*	
a Valencia	63	22nd	50	17th	60·9	54·0	57·2	+ 0·1	106	0	*	*	*	*	*	*	7	4·54	+ 3·79	3·1	− 3·2	19	−20	Valencia.
a Roche's Point ..	63	16th	49	17th	60·6	51·9	56·0	− 1·2	98	0	*	*	*	*	*	*	7	1·36	+ 0·72	2·2	—	14	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	63	21st	52	16, 19	61·4	53·6	57·2	− 0·8	106	0	*	*	*	*	*	*	6	0·13	− 0·28	4·9	− 3·2	30	−20	Scilly.
a Jersey, St. Aubins ..	80	22nd	53	17th	68·0	55·1	61·1	+ 1·8	134	0	*	*	*	*	*	*	3	0·22	− 0·26	8·5	+ 0·4	53	+ 3	St. Heliers.
a Guernsey (Villa Carey)	78	22nd	53	16, 17, 22	66·7	54·0	59·9	+ 1·4	125	0	0	42	62·2	+1·4	58·7	+1·3	2	0·02	− 0·47	8·9	+ 0·7	55	+ 4	Guernsey.*

Additional Sunshine Means :—*Bognor, 7·8 hrs. 48 °/₀ ; Ramsgate, 9·3 hrs. 57 °/₀ ; Rhyl, 4·2 hrs. 25 °/₀ ; Salcombe, 6·5 hrs. 40 °/₀ ; Tenby, 3·9 hrs. (− 3·7) 24 °/₀ (− 23 °/₀) ; Torquay, 6·3 hrs. (− 1·4) 39 °/₀ (− 9 °/₀).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 22nd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	50	49	49·4	−0·1	SCOTLAND, W. ..	Lamlash	54	52	52·8	0·0
	Kirkwall	57	55	55·8	+3·6		Ballantrae	54	51	52·7	0·0
	Wick	51	49	49·9	−1·2	ENGLAND, N.W. ..	Port Erin	57	53	54·1	+1·8
	Cromarty	57	52	53·7	+0·4		Newquay	57	57	57·0	−0·5
SCOTLAND, E. ..	Pennan Bay	51	50	50·3	−1·7	ENGLAND, S.W. ..	Scilly	59	58	58·5	—
	Aberdeen, Cove Bay	51	50	50·7	−0·2		Plymouth‡	59	57	57·7	+1·2
ENGLAND, N.E. ..	Burnmouth, Berwick	51	48	49·7	−0·4		Salcombe	58	53	55·1	+0·1
	Scarborough ..	59	52	56·7	+4·6	IRELAND, N.W. ..	Sheephaven	57	53	55·3	−0·8
ENGLAND, E. ..	Shipwash Lightship	61	53	58·7	+2·2		Teelin	57	54	55·7	−2·0
	Margate‡	64	60	61·9	+2·1	IRELAND, S.W. ..	Cleggan	57	55	56·5	+1·6
ENGLAND, S.E. ..	Eastbourne‡	61	59	60·0	+1·1	IRELAND, E.	Seafield	64	58	60·9	+3·8
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-FIFTH WEEK—June 16th to June 22nd, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	69	38	57·7	46·1	51·5	− 1·9	67	− 13	0	0	6	+ 2	1·15	+0·46	2·8	−2·2	16	−12
Eastern.																		
1. SCOTLAND, EAST ...	72	35	61·5	46·8	53·6	− 1·2	81	− 9	0	0	6	+ 3	0·65	+0·11	2·7	−3·3	16	−19
2. ENGLAND, N.E.	80	42	65·8	50·1	57·4	+ 1·4	108	+ 10	0	0	5	+ 1	0·87	+0·45	5·6	−0·6	33	− 4
3. ENGLAND, EAST ...	80	46	70·1	51·8	60·3	+ 2·5	128	+ 18	0	0	3	0	0·23	−0·20	8·5	+1·8	51	+11
4. MIDLAND COUNTIES ...	81	43	68·2	51·0	59·0	+ 1·4	119	+ 10	0	0	3	0	0·41	−0·07	5·7	−0·4	35	− 2
5. ENGLAND, S.E.	82	43	68·6	51·5	59·4	+ 0·9	122	+ 6	0	0	2	0	0·12	−0·28	8·0	+1·0	49	+ 6
Western.																		
6. SCOTLAND, WEST ...	67	37	59·8	48·8	53·9	− 2·1	83	− 15	0	0	6	+ 2	2·10	+1·38	2·8	−3·5	16	−20
7. ENGLAND, N.W.	76	40	63·4	51·4	57·0	0·0	107	+ 2	0	0	4	+ 1	0·98	+0·40	3·6	−2·7	21	−16
8. ENGLAND, S.W.	77	40	64·0	51·8	57·4	− 0·2	108	− 1	0	0	4	0	0·65	+0·11	4·5	−2·4	27	−14
9. IRELAND, NORTH ...	69	39	61·3	50·2	55·3	− 0·7	93	− 4	0	0	6	+ 2	1·49	+0·83	3·5	−2·1	20	−12
10. IRELAND, SOUTH ...	68	47	62·4	52·7	57·2	− 0·2	106	− 2	0	0	7	+ 3	1·97	+1·34	2·5	−3·4	15	−21
11. ENGLISH CHANNEL ...	80	52	65·4	54·2	59·4	+ 0·9	122	+ 7	0	0	4	+ 1	0·12	−0·29	7·4	−0·7	46	− 4

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 3 Weeks, June 2nd to June 22nd 1912.

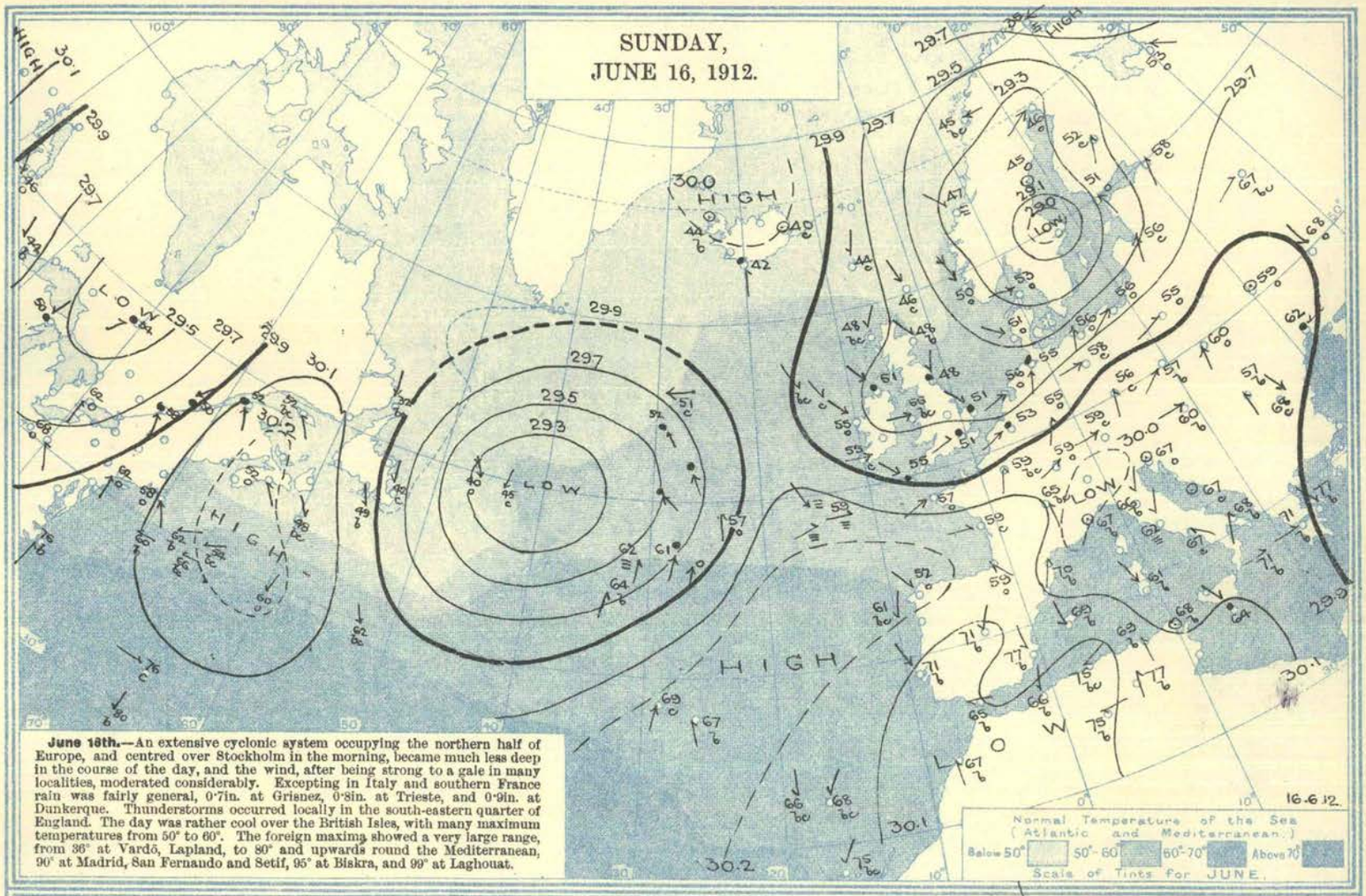
0. SCOTLAND, NORTH ...	69	38	*	*	*	*	187	− 33	0	− 2	14	+ 3	2·43	+0·56	2·6	−2·8	15	−16
Eastern.																		
1. SCOTLAND, EAST ...	72	32	*	*	*	*	207	− 38	0	− 1	17	+ 8	2·59	+1·10	1·5	−4·5	9	−26
2. ENGLAND, N.E	80	42	*	*	*	*	262	− 3	0	0	17	+ 8	3·53	+2·26	4·1	−2·1	25	−12
3. ENGLAND, EAST ...	80	40	*	*	*	*	327	+ 24	0	0	13	+ 4	1·84	+0·35	6·7	0·0	41	0
4. MIDLAND COUNTIES ...	81	38	*	*	*	*	292	− 11	0	0	14	+ 6	2·90	+1·48	4·9	−1·2	30	− 7
5. ENGLAND, S.E.	82	37	*	*	*	*	313	− 11	0	0	11	+ 3	2·58	+1·21	6·9	0·0	43	0
Western.																		
6. SCOTLAND, WEST ...	69	37	*	*	*	*	250	− 23	0	0	16	+ 6	4·36	+2·42	3·6	−2·9	21	−17
7. ENGLAND, N.W.	76	38	*	*	*	*	268	− 22	0	0	16	+ 7	3·20	+1·71	4·4	−2·2	26	−13
8. ENGLAND, S.W.	77	35	*	*	*	*	280	− 28	0	0	14	+ 4	3·20	+1·62	5·3	−1·6	33	−10
9. IRELAND, NORTH ...	69	35	*	*	*	*	248	− 22	0	0	16	+ 5	3·17	+1·35	4·4	−1·4	26	− 9
10 IRELAND, SOUTH ...	69	33	*	*	*	*	272	− 31	0	0	18	+ 8	3·75	+2·01	5·0	−1·3	29	− 9
11. ENGLISH CHANNEL ...	80	45	*	*	*	*	318	− 6	0	0	14	+ 4	2·48	+1·22	7·4	−0·6	45	− 6

THE YEAR.—Aggregates, &c., for the Period of 25 Weeks, December 31st, 1911, to June 22nd, 1912.

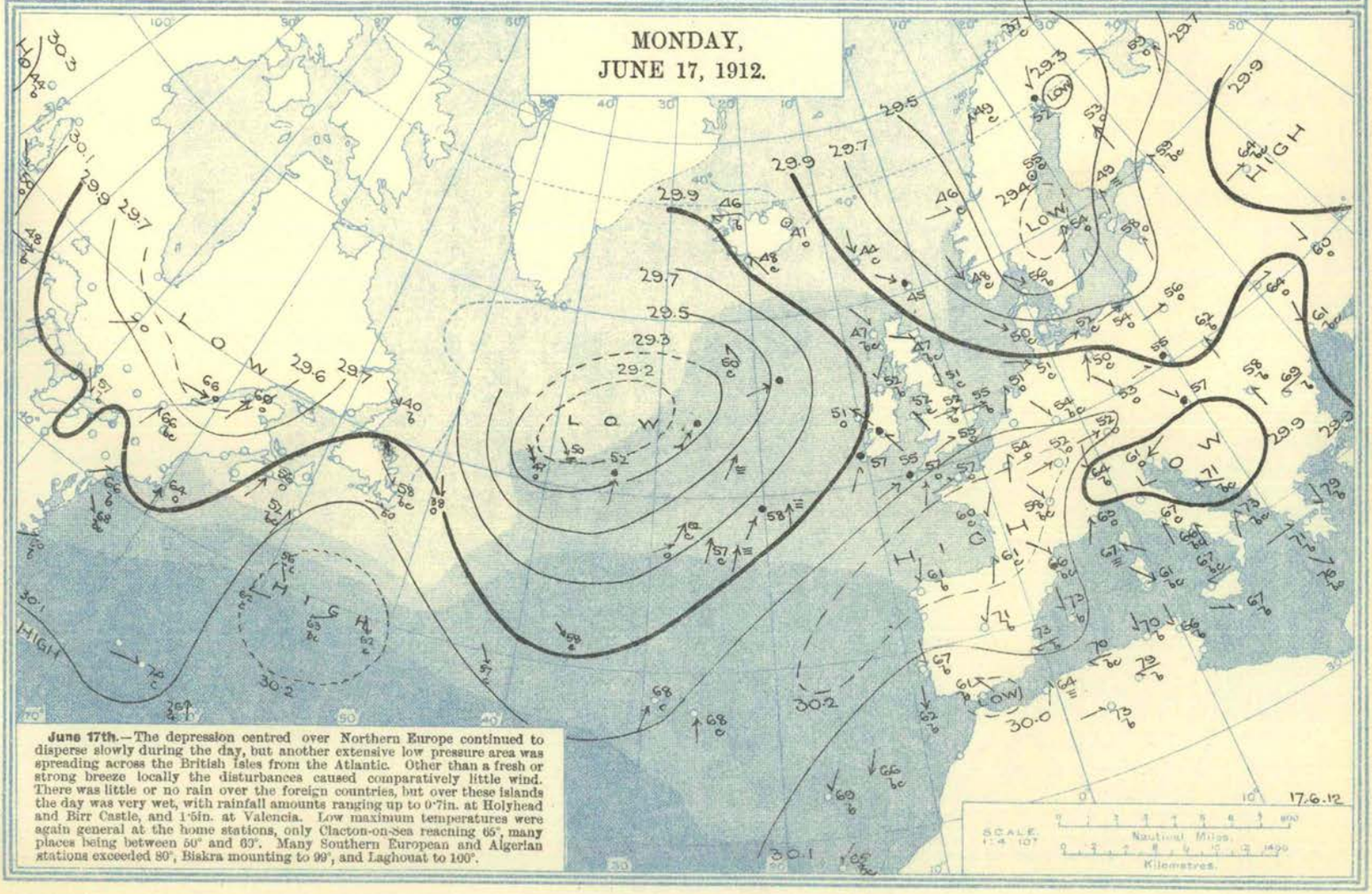
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	675	+ 7	427	−130	118	+ 3	22·65	−0·06	3·2	−0·3	26	− 2
Eastern.																		
1. SCOTLAND, EAST ...	72	−5	*	*	*	*	813	+ 37	519	−101	107	+14	13·15	+0·40	3·3	−0·7	27	− 5
2. ENGLAND, N.E.	80	10	*	*	*	*	969	+152	373	−102	96	+10	13·19	+3·44	3·6	−0·6	29	− 5
3. ENGLAND, EAST ...	82	14	*	*	*	*	1,208	+214	274	−247	90	+ 6	10·06	+0·25	4·3	−0·1	34	− 2
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	1,144	+122	373	−160	90	+ 8	14·88	+3·75	3·6	−0·4	29	− 3
5. ENGLAND, S.E.	82	13	*	*	*	*	1,234	+143	218	−163	85	+ 6	13·36	+2·38	4·4	0·0	36	0
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	900	+ 35	329	− 96	106	+ 7	21·37	+1·61	3·6	−0·4	29	− 4
7. ENGLAND, N.W.	76	7	*	*	*	*	1,006	+ 92	298	− 88	97	+ 7	15·46	+1·68	3·8	−0·3	31	− 2
8. ENGLAND, S.W.	77	9	*	*	*	*	1,155	+ 82	189	−112	104	+14	19·42	+3·76	3·8	−0·7	31	− 5
9. IRELAND, NORTH ...	69	15	*	*	*	*	993	+ 63	237	−108	99	− 7	16·38	+0·60	3·4	−0·5	28	− 4
10. IRELAND, SOUTH ...	71	13	*	*	*	*	1,193	+ 71	167	− 92	119	+23	19·65	+2·39	4·0	−0·3	32	− 3
11. ENGLISH CHANNEL ...	80	27	*	*	*	*	1,515	+272	44	− 65	102	+ 5	15·98	+2·80	4·9	−0·4	40	− 3

NOTES ON TABLE IV.

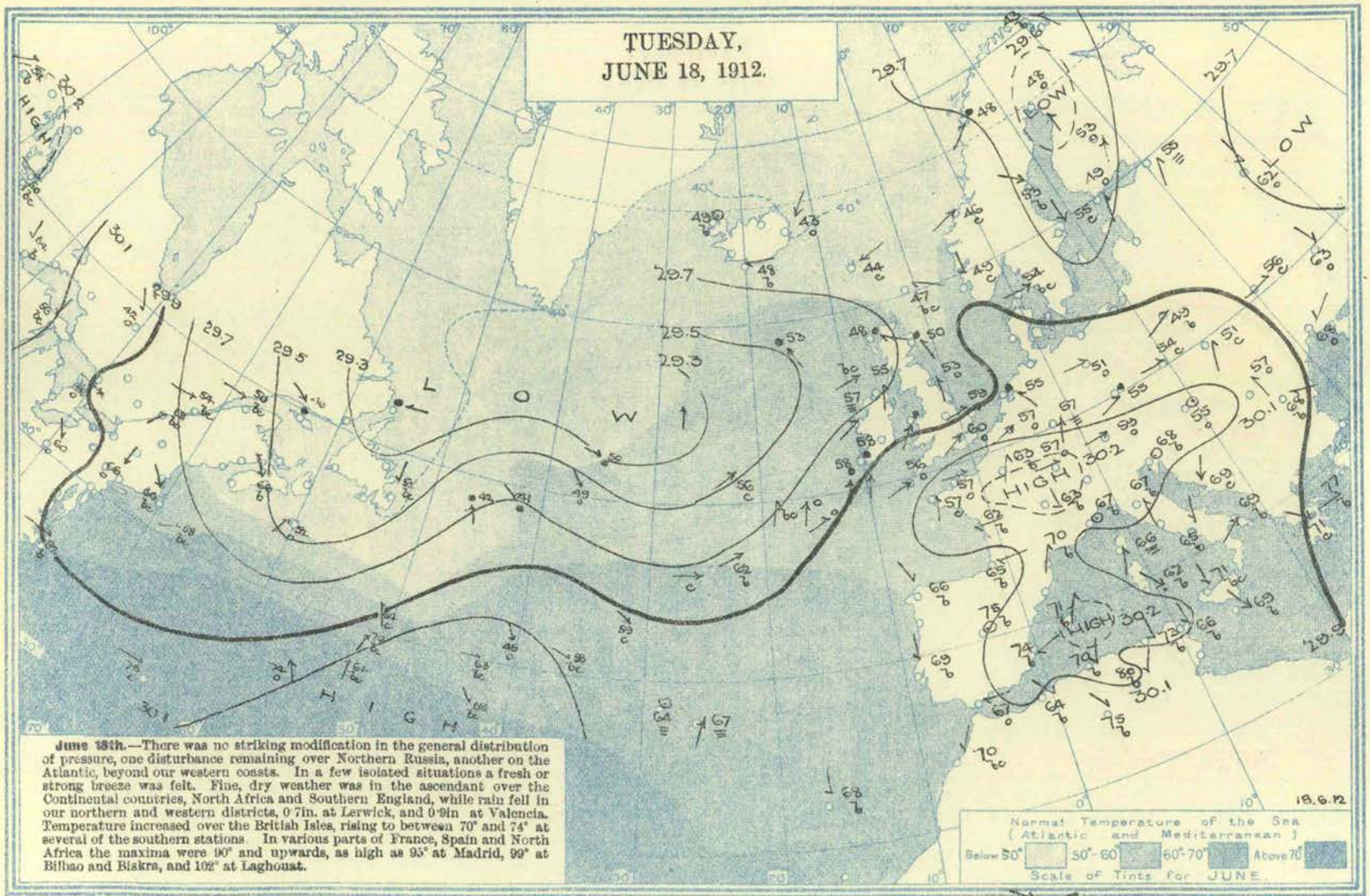
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



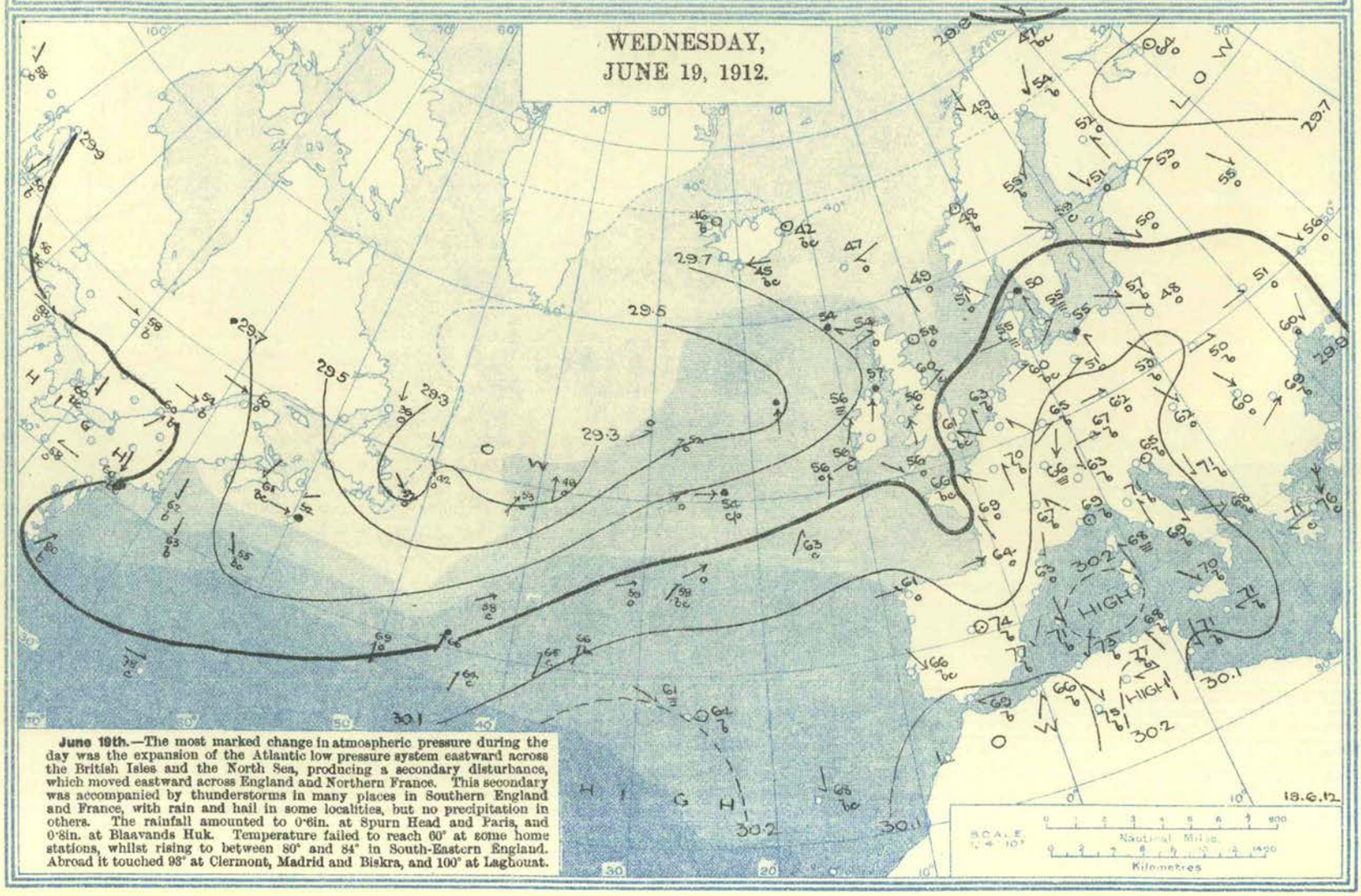
June 16th.—An extensive cyclonic system occupying the northern half of Europe, and centred over Stockholm in the morning, became much less deep in the course of the day, and the wind, after being strong to a gale in many localities, moderated considerably. Excepting in Italy and southern France rain was fairly general, 0·7in. at Grisnez, 0·8in. at Trieste, and 0·9in. at Dunkerque. Thunderstorms occurred locally in the south-eastern quarter of England. The day was rather cool over the British Isles, with many maximum temperatures from 50° to 60°. The foreign maxima showed a very large range, from 36° at Vardö, Lapland, to 80° and upwards round the Mediterranean, 90° at Madrid, San Fernando and Setif, 95° at Biskra, and 99° at Laghouat.



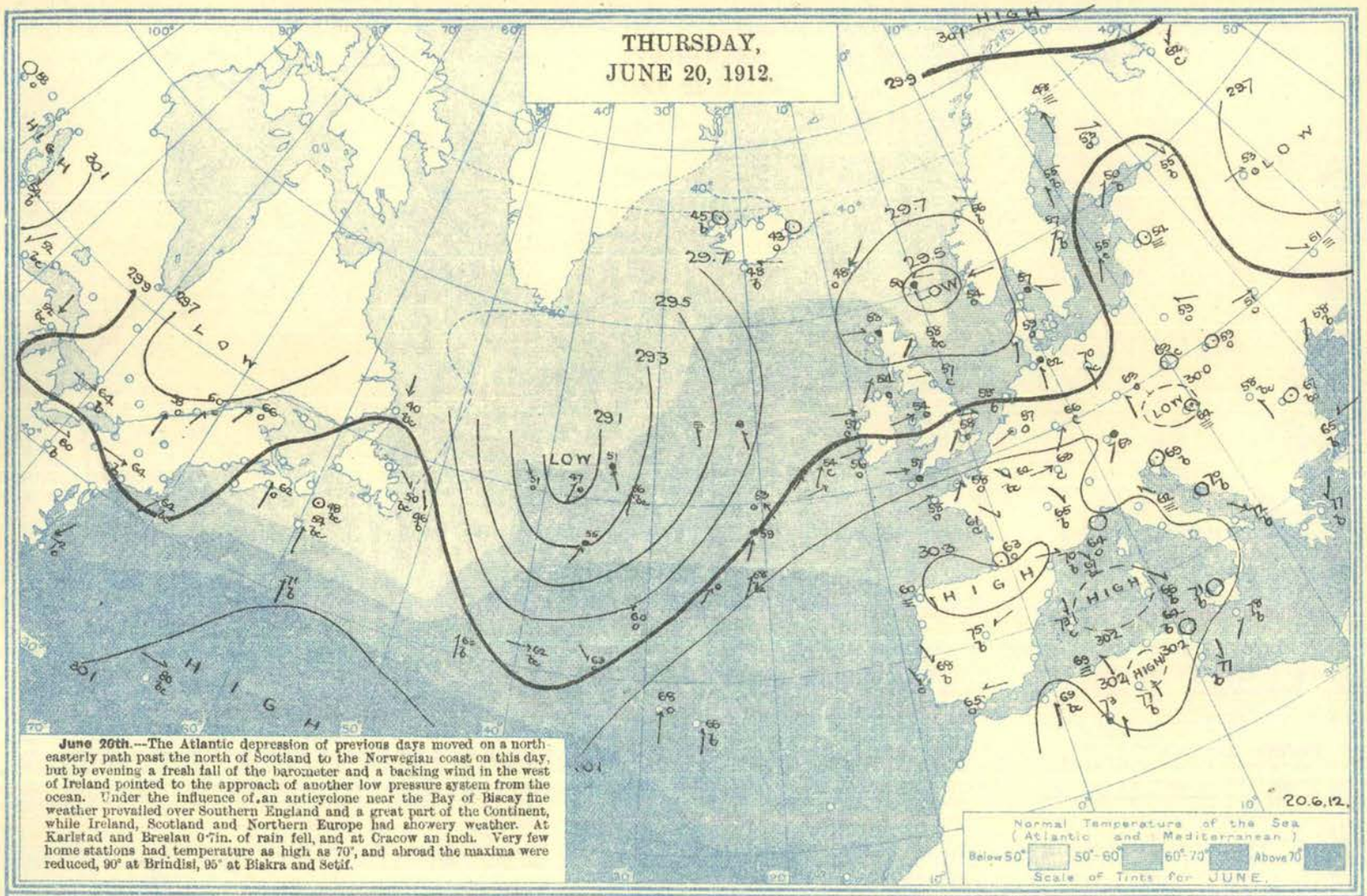
June 17th.—The depression centred over Northern Europe continued to disperse slowly during the day, but another extensive low pressure area was spreading across the British Isles from the Atlantic. Other than a fresh or strong breeze locally the disturbances caused comparatively little wind. There was little or no rain over the foreign countries, but over these islands the day was very wet, with rainfall amounts ranging up to 0·7in. at Holyhead and Birr Castle, and 1·5in. at Valencia. Low maximum temperatures were again general at the home stations, only Clacton-on-Sea reaching 65°, many places being between 50° and 60°. Many Southern European and Algerian stations exceeded 80°, Biskra mounting to 99°, and Laghouat to 100°.



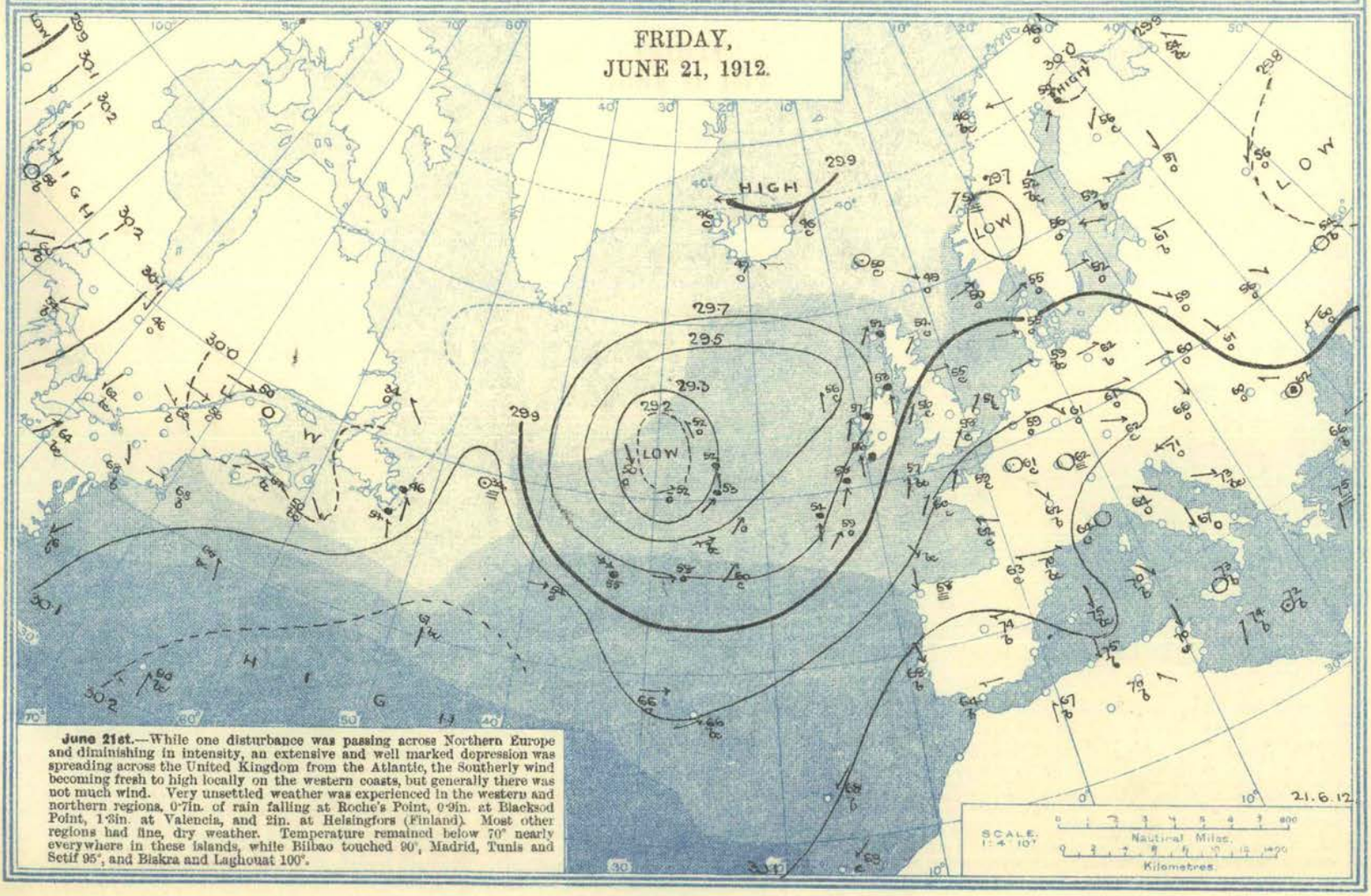
June 18th.—There was no striking modification in the general distribution of pressure, one disturbance remaining over Northern Russia, another on the Atlantic, beyond our western coasts. In a few isolated situations a fresh or strong breeze was felt. Fine, dry weather was in the ascendant over the Continental countries, North Africa and Southern England, while rain fell in our northern and western districts, 0·7in. at Lerwick, and 0·9in at Valencia. Temperature increased over the British Isles, rising to between 70° and 74° at several of the southern stations. In various parts of France, Spain and North Africa the maxima were 90° and upwards, as high as 95° at Madrid, 99° at Bilbao and Biskra, and 102° at Laghouat.



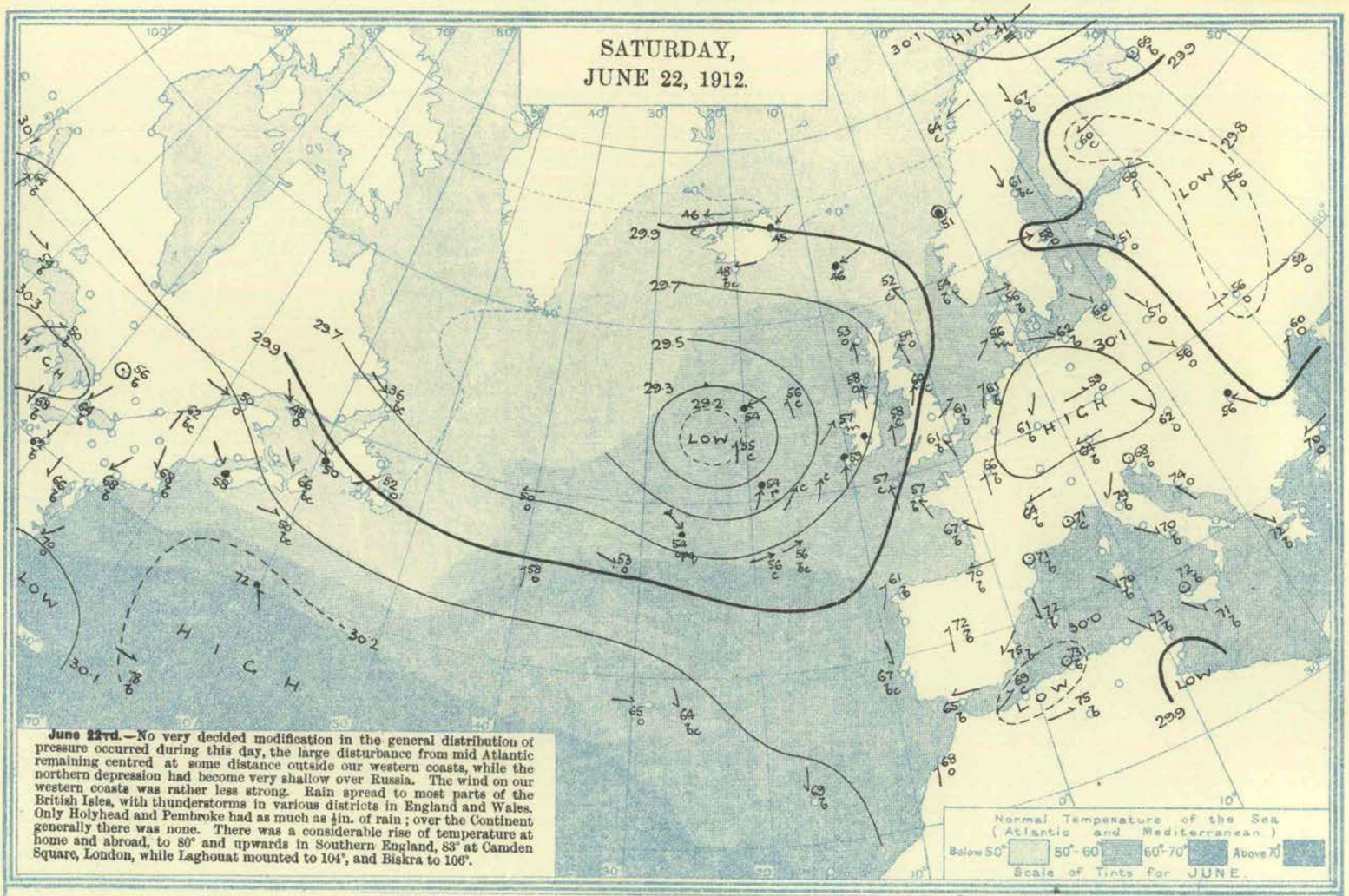
June 19th.—The most marked change in atmospheric pressure during the day was the expansion of the Atlantic low pressure system eastward across the British Isles and the North Sea, producing a secondary disturbance, which moved eastward across England and Northern France. This secondary was accompanied by thunderstorms in many places in Southern England and France, with rain and hail in some localities, but no precipitation in others. The rainfall amounted to 0·6in. at Spurn Head and Paris, and 0·8in. at Blaavands Huk. Temperature failed to reach 60° at some home stations, whilst rising to between 80° and 84° in South-Eastern England. Abroad it touched 93° at Clermont, Madrid and Biskra, and 100° at Laghouat.



June 20th.—The Atlantic depression of previous days moved on a north-easterly path past the north of Scotland to the Norwegian coast on this day, but by evening a fresh fall of the barometer and a backing wind in the west of Ireland pointed to the approach of another low pressure system from the ocean. Under the influence of an anticyclone near the Bay of Biscay fine weather prevailed over Southern England and a great part of the Continent, while Ireland, Scotland and Northern Europe had showery weather. At Karlstad and Breslau 0·7in. of rain fell, and at Cracow an inch. Very few home stations had temperature as high as 70°, and abroad the maxima were reduced, 90° at Brindisi, 95° at Biskra and Setif.

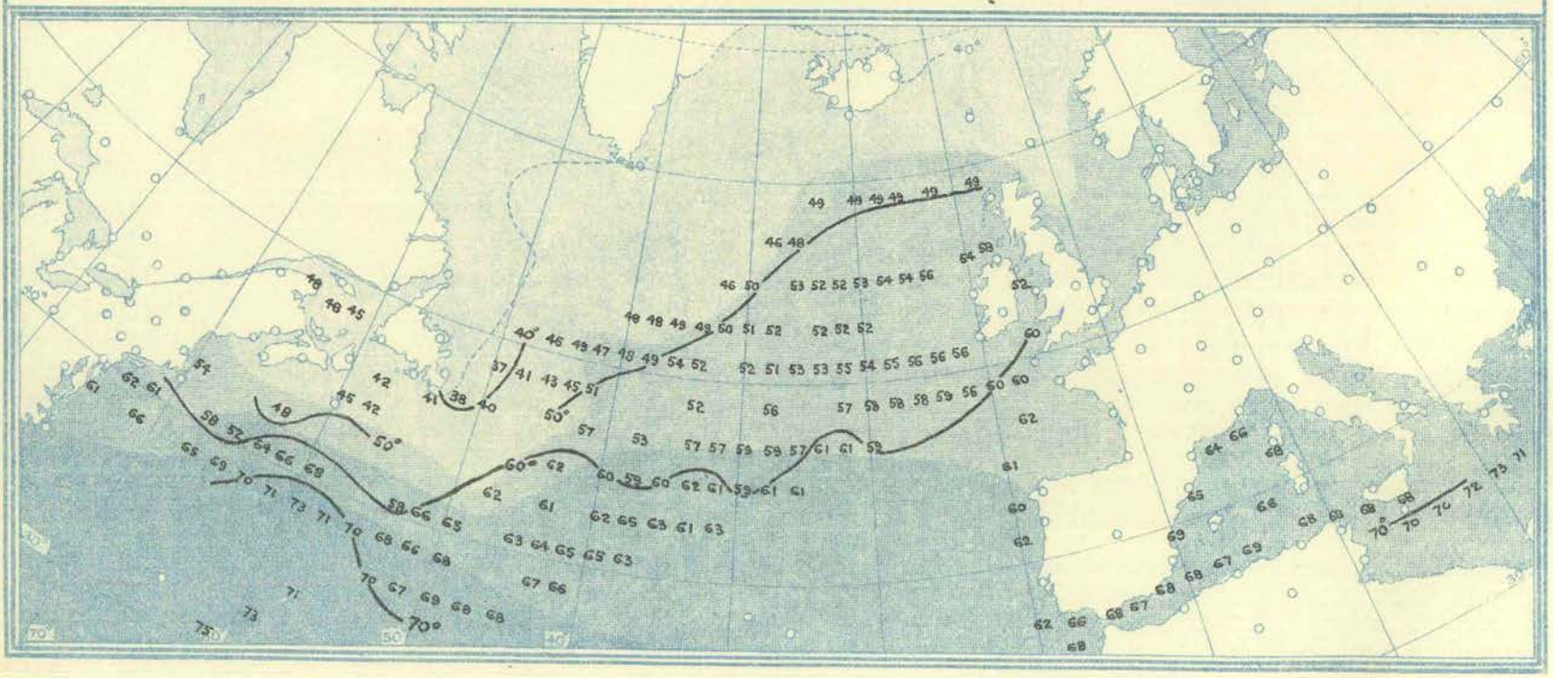


June 21st.—While one disturbance was passing across Northern Europe and diminishing in intensity, an extensive and well marked depression was spreading across the United Kingdom from the Atlantic, the Southerly wind becoming fresh to high locally on the western coasts, but generally there was not much wind. Very unsettled weather was experienced in the western and northern regions, 0·7in. of rain falling at Roche's Point, 0·9in. at Blacksod Point, 1·3in. at Valencia, and 2in. at Helsingfors (Finland). Most other regions had fine, dry weather. Temperature remained below 70° nearly everywhere in these islands, while Bilbao touched 90°, Madrid, Tunis and Setif 95°, and Biskra and Laghouat 100°.



June 22nd.—No very decided modification in the general distribution of pressure occurred during this day, the large disturbance from mid Atlantic remaining centred at some distance outside our western coasts, while the northern depression had become very shallow over Russia. The wind on our western coasts was rather less strong. Rain spread to most parts of the British Isles, with thunderstorms in various districts in England and Wales. Only Holyhead and Pembroke had as much as ¼in. of rain; over the Continent generally there was none. There was a considerable rise of temperature at home and abroad, to 80° and upwards in Southern England, 83° at Camden Square, London, while Laghouat mounted to 104°, and Biskra to 106°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 22ND JUNE, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 26. TWENTY-SIXTH WEEK, SUNDAY, JUNE 23RD, TO SATURDAY, JUNE 29TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather was generally cool and extremely unsettled, with frequent falls of rain in all districts. Thunderstorms were experienced in nearly all parts of the United Kingdom; at many places in the north and east they occurred almost every day.

Temperature was equal to the average in Scotland East, and slightly above it in England North-East and East. In all other districts it was below the normal, the deficit being greatest in Ireland South. The highest readings were observed very generally on the 23rd, when the thermometer rose to between 70° and 75° in many parts of Great Britain, and to 78° in England South-East (at Margate). In Ireland, Scotland West, England North-West and the English Channel it did not reach 70°. The lowest readings occurred on the 25th, 26th, or 29th, the values ranging from 40° in Scotland East and 42° in Ireland North to 48° in England East and South-West, and to 50° in the Channel district. At a depth of 1 foot the temperature of the soil was appreciably above the average, but at a depth of 4 feet the excess was small, and at some places in the northern parts both of England and Ireland the mean value was a trifle below the normal.

Mean Temperature of the Sea was above the average in most places, and was higher than in the corresponding week of last year. On some parts of the Scottish coasts it was, however, a trifle below the normal, and was lower than in 1911.

Rainfall was in excess of the average in all districts excepting Scotland North. In the western half of the United Kingdom and in England North-East and the Midland Counties the excess was large. At Arlington, in North Devon, rain fell daily, and the total amount, 3·5 in. was nearly four and a half times as much as the normal for the week.

Bright Sunshine. In England South-East and the English Channel the duration agreed very closely with the average, the mean daily amount in the latter district, 8·8 hours, being equal to 55 per cent. of the possible. In all other districts it was again deficient, the mean daily duration in Scotland North and Ireland North amounting to less than 4 hours.

Barometer and Wind. In the course of the week three cyclonic systems extended over North-Western Europe from the Atlantic, the central areas skirting our own extreme western and northern coasts and afterwards moving away to the northward. In Scotland the wind was usually from the South-Eastward, but over England and Ireland it was from between South and West, and on Tuesday the Southerly current blew with the force of a gale on the more exposed parts of the Channel coasts. At other times the strength of the wind seldom exceeded that of a fresh breeze.

THE WEEK.

For explanation of the terms "Unusual" &c., *see* p. 103.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Moderate
	Rainfall ...	Moderate	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Very heavy	Heavy	Very heavy	Moderate
	Sunshine ...	Moderate	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Scanty	Scanty	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 4 weeks from June 2nd, 1912.	Warmth ...	0 * 2	0 * 2	1 * 1	1 * 0	1 * 1	0 * 1	0 * 1	0 * 1	0 * 2	0 * 1	0 * 3	1 * 1
	Rainfall ...	1 * 0	2 * 0	4 * 0	2 * 0	3 * 0	3 * 1	4 * 0	4 * 0	3 * 0	3 * 0	4 * 0	1 * 1
	Sunshine ...	0 * 3	0 * 4	0 * 3	2 * 1	0 * 1	0 * 1	0 * 2	0 * 3	0 * 2	0 * 3	0 * 3	0 * 1

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(25184—24.) Wt. 173—814. 450. 7/12. D & S. Gp 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands .. *p Baltasound* .. S	*59*	*24th*	*49*	*24th*	*55·6*	*50·0*	*52·6*	—	*74*	*0*	•	•	53·4	•	•	•	*5*	*0·62*	—	*3·0*	—	*16*	—	*Baltasound.*
a Lerwick	59	25th	49	24, 28	56·0	50·1	52·8	+ 2·6	76	0	•	•	•	•	•	•	4	0·32	—	4·4	- 0·5	24	- 3	Deerness.
a Stornoway	66	26, 28	47	26th	61·7	51·6	56·3	+ 3·3	100	0	•	•	•	•	•	•	5	0·55	- 0·04	5·0	- 0·9	28	- 5	Stornoway.
a Castlebay, Barra Isd. .	*59*	*23, 26, 28*	*50*	*26th*	*58·0*	*52·3*	*55·0*	- *0·7*	*91*	*0*							7	*1·50*	—	*5·3*	—	*30*	—	*Castlebay.*
b, Main-land. *a* Wick	59	23, 24	45	27th	55·7	48·0	51·6	- 1·1	67	0	•	•	•	•	•	•	4	0·15	- 0·35	•	•	•	•	•
p Strathpeffer ..	71	23rd	45	29th	65·3	49·0	56·6	+ 1·9	102	0	•	•	•	•	•	•	6	0·83	+ 0·33	3·2	- 1·8	18	-10	Strathpeffer.
p Glencarron ..	66	28th	45	26, 29	62·1	49·1	55·2	+ 1·8	92	0	•	•	•	•	•	•	6	0·70	+ 0·33	•	•	•	•	•
p Fort Augustus..	69	23rd	44	26th	65·1	49·4	56·7	+ 2·0	103	0	•	•	•	•	•	•	7	0·53	+ 0·01	2·8	- 1·4	16	- 8	Fort Augustus.
p Fort William .. S	68	23, 28	46	26th	64·1	50·7	56·9	+ 1·1	104	0	•	•	•	•	•	•	6	0·91	- 0·03	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. S	75	23rd	46	27th	66·9	50·3	58·0	+ 2·5	112	0	0	34	56·4	+0·7	51·6	-0·8	—	—	—	4·7	—	27	—	Crathes S.
a Nairn	74	23rd	43	26, 27	65·0	48·3	56·1	+ 1·1	99	0	•	•	•	•	•	•	3	0·22	- 0·32	*4·7*	—	*27*	—	*Gordon Castle.*
a Aberdeen	65	23, 27	46	29th	62·6	50·0	55·9	+ 1·2	97	0	•	•	•	•	50·7	-0·3	5	0·45	+ 0·01	4·3	—	24	—	Nairn.
a Balmoral ..	68	23, 25	40	26, 29	63·1	45·4	53·6	+ 0·4	81	0	0	37	•	•	•	•	4	0·20	- 0·30	5·2	- 0·8	30	- 5	Aberdeen.
p Crieff	71	26th	44	26th	64·6	49·7	56·6	0·0	102	0	•	•	•	•	•	•	5	0·50	0·00	•	•	•	•	Balmoral.
a Leith .. .. S	70	23rd	46	28th	65·3	51·6	58·0	+ 1·3	112	0	•	•	•	•	•	•	6	1·48	+ 0·82	2·4	—	14	—	Balruddery.
p West Linton .. S	65	29th	41	26th	62·4	47·1	54·2	+ 0·1	85	0	0	36	•	•	•	•	6	0·67	+ 0·18	•	•	•	•	•
p Marchmont .. S	68	23rd	45	26th	63·1	48·3	55·2	+ 0·6	92	0	0	42	57·1	+1·0	•	•	6	0·54	—	*3·9*	—	*23*	—	*West Linton.*
																	6	1·16	+ 0·58	4·1	- 2·0	24	-12	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	71	23rd	44	26, 29	65·1	49·4	56·7	+ 1·3	103	0	0	41	56·7	+0·8	53·3	+0·4	6	1·55	+ 1·05	3·9	—	23	—	Cockle Park.
a Shields	71	23rd	49	29th	64·9	51·4	57·7	+ 2·0	110	0	•	•	•	•	•	•	6	1·09	+ 0·60	•	•	•	•	*Newcastle.*
a Durham	68	23rd	46	29th	64·6	50·3	57·0	+ 0·5	105	0	0	44	•	•	•	•	?	?	?	4·2	- 1·5	25	- 9	Durham.
a, North .. *p* Rounton	70	23rd	47	29th	65·9	51·1	58·0	+ 2·1	112	0	0	44	60·0	•	•	•	7	1·20	+ 0·72	•	•	•	•	Rounton.
a West Witton ..	*68*	*23rd*	*47*	*26th*	*63·9*	*51·1*	*57·1*	—	*106*	*0*	0	45	59·3	•	52·5	•	*6*	*0·96*	—	•	•	•	•	*West Witton.*
p Scarborough ..	73	23rd	51	24, 25, 26	64·5	52·3	58·0	+ 1·4	112	0	•	•	•	•	55·2†	•	5	0·45	+ 0·01	4·9	—	29	—	Scarborough.
p York	73	23rd	50	29th	67·1	53·3	59·7	+ 1·4	124	0	•	•	58·8	+1·7	54·8	+1·1	5	1·35	+ 0·84	3·5	- 2·4	21	-14	York.
b, South .. *a* Spurn Head ..	72	23rd	51	25, 26, 29	65·3	53·0	58·7	+ 1·9	117	0	0	45	60·7	+2·8	53·4	+0·6	6	0·90	+ 0·55	*3·7*	—	*22*	—	*Hull.*
a Lincoln	72	23rd	50	26th	67·9	53·4	60·2	+ 0·9	127	0	•	•	60·4	+2·4	57·1	+3·0	7	0·80	+ 0·14	•	•	•	•	Lincoln.
a Fulbeck	71	23rd	48	29th	66·1	51·9	58·5	- 0·2	116	0	0	39	60·8	0·0	54·9	-0·1	7	0·99	+ 0·52	5·2	—	31	—	Rauceby.
											•	•	•	•	•	•	—	—	—	6·8	—	41	—	Skegness.
											0	47	62·7	+2·2	57·6	+1·0	—	—	—	*6·0*	—	*36*	—	*Lowestoft.*
3. ENGLAND, E.											•	•	•	•	•	•	4	0·51	—	5·8	—	35	—	Cromer.
p Cromer	74	23rd	48	29th	68·9	51·1	59·4	+ 1·8	122	0	•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
p Hillington							—	—	—		•	•	63·6	+1·3	58·4	-0·3	5	0·56	+ 0·09	6·4	—	39	—	Yarmouth.
a, North .. *a* Yarmouth ..	75	23rd	52	25, 27, 29	68·1	54·0	60·6	+ 2·9	130	0	•	•	•	•	•	•	4	0·42	—	*5·2*	—	*31*	—	*Norwich.*
a Norwich	74	23rd	49	29th	68·6	52·9	60·2	+ 2·1	127	0	0	44	62·8	•	•	•	4	0·93	+ 0·49	5·6	- 1·2	34	- 8	Geldeston.
p Geldeston	75	23rd	49	29th	69·7	52·6	60·6	+ 2·5	130	0	•	•	•	•	•	•								
b, South .. *p* Cambridge ..	73	23rd	48	29th	69·1	52·6	60·3	+ 0·7	128	0	0	43	63·3	+3·2	58·8	+2·0	2	0·35	- 0·14	7·4	+ 0·8	45	+ 5	Cambridge.
a Felixstowe ..	*73*	*23rd*	*52*	*27th*	*67·4*	*56·4*	*61·5*	+ *2·8*	*137*	*0*	•	•	•	•	•	•	*5*	*0·38*	—	*6·9*	—	*42*	—	*Felixstowe.*
a Clacton-on-Sea ..	74	23rd	53	27th	67·7	57·0	62·0	+ 3·3	140	0	0	47	61·3	+2·3	57·8	+0·8	2	0·26	—	6·7	—	41	—	Clacton.
a Rothamsted ..	71	23rd	49	25, 29	66·7	51·7	58·7	+ 0·3	117	0	•	•	•	•	•	•	5	0·65	+ 0·14	7·3	+ 0·8	45	+ 5	Rothamsted.
a Shoeburyness ..	*73*	*23rd*	*53*	*28th*	*68·0*	*55·4*	*61·3*	+ *0·6*	*135*	*0*	0	50	64·9	+3·3	•	•	2	*0·16*	- *0·22*	*7·4*	—	*45*	—	*Southend.*
p Tottenham	73	23rd	53	27, 29	68·6	55·4	61·5	+ 1·5	137	0	0	49	•	•	58·9	+1·3	5	0·65	—	6·4	—	39	—	Tottenham.
4. MIDLAND COUNTIES.											0	43	60·0	+2·4	52·6	-0·1	—	—	—	*4·2*	—	*25*	—	*Huddersfield.*
a Harrogate	73	23rd	47	26th	64·1	51·1	57·2	+ 0·8	106	0	0	42	57·0	+2·3	54·3	+1·4	4	1·07	+ 0·53	4·6	—	27	—	Harrogate.
a Bawtry	73	23rd	48	26th	67·3	52·0	59·1	+ 0·4	120	0	0	42	59·7	•	55·7	•	5	0·99	+ 0·54	4·3	- 1·2	28	- 7	Worksop.
p Buxton	*69*	*28th*	*47*	*25, 26, 29*	*62·1*	*50·0*	*55·6*	+ *0·2*	*95*	*0*	0	43	60·0	+1·5	56·4	+1·3	6	*0·94*	+ *0·19*	*4·9*	—	*29*	—	*Buxton.*
a East .. *a* Nottingham ..	70	23rd	48	26th	66·0	52·0	58·5	- 0·1	116	0	0	43	54·5	+0·9	51·1	+0·6	6	1·07	+ 0·59	4·4	—	26	—	Nottingham.
p Birmingham, Edgbsn.	67	23rd	49	25, 26, 29	63·3	51·3	56·9	- 0·8	104	0	0	43	54·5	+0·9	51·1	+0·6	6	1·44	+ 0·94	4·3	—	26	—	Birmingham.
a Raunds	74	23rd	48	29th	69·0	52·0	59·9	+ 0·7	125	0	0	41	61·3	•	55·1	•	6	0·54	—	•	•	•	•	Raunds.
a Oxford	70	23rd	51	25, 29	66·7	53·6	59·7	+ 0·3	124	0	0	—	†	•	•	•	4	0·31	- 0·22	7·6	+ 1·1	46	+ 7	Oxford.
											0	42	59·0	+2·4	52·6	+0·5	—	—	—	5·8	—	35	—	Sheffield.
a Cheadle	70	24th	43	26th	65·4	48·4	56·3	- 0·3	100	0	0	38	•	•	•	•	5	1·30	+ 0·70	•	•	•	•	Cheadle.
p Shrewsbury ..	70	23rd	48	26th	67·1	52·1	59·1	+ 0·9	120	0	0	46	•	•	•	•	5	0·33	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	70	23rd	49	26th	65·3	51·6	58·0	- 0·9	112	0	0	45	•	•	•	•	6	1·24	+ 0·74	•	•	•	•	Hereford.
a Cirencester ..	71	23rd	47	25th	64·9	50·3	57·1	- 0·5	106	0	0	46	58·1	•	55·0	•	6	1·27	+ 0·72	6·4	0·0	39	0	Cirencester.
a Bath	68	23rd	52	26th	66·3	54·3	59·9	+ 0·8	125	0	•	•	61·9	+1·2	58·1	+0·5	5	0·63	+ 0·09	7·3	—	45	—	Bath.
5. ENGLAND, S.E.											0	45	65·2	+6·0	58·2	+1·1	—	—	—	•	•	•	•	Canterbury.
p Kew	71	23rd	50	29th	67·6	54·4	60·5	+ 0·9	130	0	0	41	61·7	+2·0	56·6	+0·9	6	0·68	+ 0·18	6·6	+ 0·1	40	+ 1	Kew.
a Marlborough ..	67	23rd	47	27th	64·4	51·1	57·3	- 0·6	107	0	0	41	•	•	•	•	5	1·07	+ 0·49	6·0	0·0	37	0	Marlborough.
a Margate	78	23rd	52	27th	69·1	54·7	61·4	+ 2·0	136	0	0	43	61·1	+2·1	56·6	+0·4	2	0·22	- 0·21	7·6	+ 1·4	46	+ 9	Margate.
a Wisley, Surrey ..	71	23rd	51	27th	67·3	53·9	60·1	- 0·5	127	0	0	43	63·0	+3·2	58·0	+1·3	5	0·49	—	7·8	—	48	—	Wisley
a Swarraton	68	23rd	49	27th	64·7	52·3	58·1	+ 0·1	113	0	0	43	63·4	+1·8	58·3	+1·0	6	1·23	+ 0·72	8·0	—	49	—	Worthing.
a Tunbridge Wells ..	70	23rd	48	27th	65·7	51·7	58·2	- 0·4	113	0	0	43	62·6	+1·3	•	•	4	0·37	- 0·13	7·9	+ 1·2	49	+ 7	Tunbridge Wells.
a Dungeness	65	23rd	50	27th	63·9	55·6	59·5	+ 1·0	123	0	•	•	•	•	•	•	1	0·36	- 0·01	8·4	—	52	—	Littlestone.
p Hastings..	68	23rd	51	27th	63·9	55·3	59·3	+ 0·3	121	0	0	43	64·7	•	58·9	•	2	0·25	- 0·21	*7·5*	- *0·1*	*46*	- *1*	*Hastings.*
p Southampton	69	23, 26	51	27th	65·4	54·3	59·5	- 1·4	123	0	0	46	•	•	•	•	6	0·86	+ 0·37	7·8	+ 0·8	48	+ 5	Southampton.
a Ventnor	66	23, 26, 27	53	27th	64·6	55·3	59·6	- 0·5	123	0	•	•	•	•	•	•	2	0·28	- 0·18	8·2	+ 1·2	50	+ 7	Ventnor.
											0	45	63·7	+1·4	59·1	+0·8	—	—	—	*9·1*	—	*56*	—	*Portsmouth.*
											•	•	62·3	•	58·3	•	—	—	—	8·0	+ 0·5	49	+ 3	Eastbourne.
											•	•	61·6	•	59·4	•	—	—	—	*8·3*	—	*51*	—	*Bournemouth.*
LONDON.											0	44	•	•	59·5	•	—	—	—	*6·3*	- *1·1*	*39*	- *7*	*Brighton.*
a Westminster	*71*	*23rd*	*53*	*27th*	*67·1*	*56·1*	*61·2*	+ *0·9*	*134*	*0*	0	50	•	•	•	•	*5*	*0·45*	- *0·05*	*6·4*	+ *0·7*	*39*	+ *4*	*Westminster.*
a Greenwich	*76*	*23rd*	*51*	*28, 29*	*70·9*	*53·4*	*61·5*	+ *0·5*	*137*	*0*	0	40	•	•	•	•	*5*	*0·29*	- *0·19*	*7·4*	+ *0·5*	*45*	+ *3*	*Greenwich.*
a Hampstead	*72*	*23rd*	*45*	*24th*	*66·0*	*52·4*	*58·7*	—	*117*	*0*	0	34	•	•	•	•	*5*	*0·80*	—	*7·0*	—	*43*	—	*Hampstead.*
a Camden Square ..	*75*	*23rd*	*51*	*29th*	*70·3*	*54·6*	*61·9*	—	*139*	*0*	0	48	•	•	•	•	*5*	*0·61*	—	*6·2*	—	*38*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	63	23, 26	47	26th	60·7	51·7	55·9	- 0·7	97	0	•	•	•	•	•	•	7	1·14	+ 0·38	•	•	•	•	•
p Glasgow	68	23rd	50	26th	63·7	53·0	58·0	+ 1·9	112	0	0	41	•	•	•	•	5	0·93	+ 0·30	4·5	- 0·8	26	- 5	Glasgow.
p Rothesay .. S	68	26th	47	29th	63·9	51·0	57·0	+ 0·2	105	0	•	•	•	•	52·8	-0·6	7	1·10	+ 0·34	•	•	•	•	•
a Kilmarnock ..	66	26, 29	47	26th	64·4	51·4	57·5	+ 0·8	109	0	•	•	•	•	•	•	5	0·52	—	*6·0*	—	*35*	—	*Kilmarnock.*
a Colmonell ..	64	23, 26, 29	46	26th	62·3	50·7	56·1	- 0·2	99	0	0	40	•	•	•	•	6	0·95	+ 0·34	•	•	•	•	•
p Dumfries	66	26th	51	26, 27	62·4	52·4	57·1	- 0·4	106	0	0	45	59·0	•	55·4	•	7	1·88	+ 1·28	*5·1*	—	*30*	—	*Dumfries.*
p Cally, Gatehouse ..	67	27th	50	26th	62·1	51·9	56·6	- 0·1	102	0	•	•	•	•	•	•	3	0·92	+ 0·21	•	•	•	•	•
b I. OF MAN.																								
p Douglas	62	24, 26, 29	48	26th	59·6	51·4	55·2	- 0·9	92	0	0	46	•	•	•	•	4	0·92	+ 0·30	6·0	- 1·1	36	- 7	Douglas.
											0	45	57·7	+1·3	52·4	0·0	—	—	—	*2·9*	—	*17*	—	*Burnley.*
											0	48	•	•	•	•	—	—	—	*5·2*	—	*31*	—	Hoylake.
7. *a*, ENGLAND, N.W.											0	43	59·9	•	53·5	•	6	0·99	+ 0·35	6·0	—	35	—	Aspatria.
p Aspatria	64	23, 29	47	26th	63·1	51·4	56·8	+ 0·9	104	0	0	43	58·9	+1·2	53·2	0·0	5	0·89	+ 0·36	4·4	- 2·3	26	-13	Newton Rigg.
p Newton Rigg ..	65	23rd	48	26th	61·6	50·1	55·5	+ 0·1	95	0	0	45	•	•	•	•	7	1·32	+ 0·58	2·5	- 3·9	15	-23	Stonyhurst.
p Stonyhurst	66	23rd	50	25, 26, 27	63·1	52·4	57·4	- 0·2	108	0	0	45	58·5	•	53·8	•	6	1·14	+ 0·61	4·8	- 1·7	28	-10	Blackpool.
p Blackpool	66	23rd	47	26th	63·1	52·6	57·5	- 0·1	109	0	?	•	•	•	•	•	7	*0·95*	—	*3·5*	—	*21*	—	*Whit Park.*
p Manchester (Whit Pk.)	*71*	*23rd*	*51*	*26th*	*65·5*	*54·1*	*59·4*	—	*122*	*0*	?	•	•	•	•	•	6	0·62	+ 0·07	*4·8*	—	*29*	—	*Liverpool.*
a Liverpool (Bidston) ..	68	23rd	51	26th	64·7	53·6	58·8	+ 0·5	118	0	0	42	62·1	+1·1	58·5	+0·6	7	0·81	+ 0·35	*5·2*	- *1·5*	*31*	- *9*	*Southport.*
a Hawarden Bridge ..	69	25th	51	25, 26	65·8	54·1	59·5	+ 1·0	123	0	0	49	59·8	+1·8	55·7	+0·4	—	—	—	*3·3*	—	*20*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	67	23rd	52	25, 26	64·4	54·0	58·8	+ 0·6	118	0	•	•	•	•	•	•	6	0·79	+ 0·32	6·3	- 0·3	38	- 2	Llandudno.
a Holyhead	64	26th	52	26, 27	61·6	52·7	56·8	+ 0·1	104	0	•	•	•	•	•	•	4	1·15	+ 0·62	5·1	—	31	—	Aberdovey.
p Bettws-y-Coed ..	67	26th	50	26, 29	64·3	52·6	58·0	+ 0·1	112	0	0	50	57·6	+1·6	53·4	+0·8	7	2·20	—	5·5	—	33	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.																**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·8	—	35	—	Aberystwyth.
a Llangammarch Wells	65	23rd	49	26th	62·7	50·7	56·3	− 0·5	100	0	0	49	56·2	+0·3	48·5	−3·7	6	1·79	—	6·3	—	38	—	Llangammarch
a Pembroke	61	29th	52	28th	59·1	54·0	56·4	− 0·3	101	0	•	•	•	•	•	•	6	1·49	+ 0·99	6·6	− 0·8	40	− 5	Pembroke.[Wells
p Cardiff	67	23rd	52	25, 27	64·1	53·3	58·3	− 1·1	114	0	0	48	61·1	+1·3	56·7	+0·5	6	2·86	+ 2·24	*6·3*	—	*38*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	69	29th	53	25-28	65·6	53·9	59·3	− 0·3	121	0	0	48	•	•	•	•	6	1·45	+ 0·87	*6·8*	—	*42*	—	*Clifton.*
a Shaftesbury	72	24th	48	25, 27	63·7	50·0	56·4	− 1·3	101	0	•	•	60·2	•	•	•	6	0·98	+ 0·42	•	•	•	•	Shaftesbury.
a Arlington	64	25th	49	25, 27	61·4	50·4	55·5	− 0·8	95	0	•	•	59·2	•	•	•	7	3·46	+ 2·68	7·7	+ 0·6	48	+ 4	Newquay.
a Cullompton	68	23rd	49	24th	65·9	52·1	58·5	0·0	116	0	0	45	61·1	•	•	•	6	1·31	+ 0·77	5·2	− 1·2	32	− 7	Cullompton.
a Portland	62	23, 26, 27	55	23-27	61·1	55·3	58·0	+ 0·1	112	0	•	•	•	•	•	•	4	0·29	—	*9·2*	—	*57*	—	*Weymouth.*
p Plymouth	65	26th	54	27th	62·7	54·7	58·4	− 1·2	115	0	0	48	62·4	+0·8	•	•	6	1·44	+ 0·90	5·8	− 1·1	36	− 7	Plymouth.
p Falmouth	64	23, 24	53	27th	62·6	54·1	58·1	− 0·4	113	0	•	•	•	•	•	•	6	1·20	+ 0·64	8·0	+ 0·6	50	+ 4	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	67	23rd	49	25th	60·7	50·3	55·1	+ 0·3	92	0	•	•	•	•	•	•	7	1·14	+ 0·59	•	•	•	•	• •
a Blacksod Point ..	62	23rd	51	25, 29	60·3	52·0	55·9	− 0·5	97	0	•	•	•	•	•	•	6	0·95	+ 0·32	•	•	•	•	• •
p Markree Castle ..	65	23rd	42	26, 29	62·3	47·3	54·3	− 1·3	86	0	0	37	58·7	•	54·4	•	7	1·94	+ 1·24	4·0	− 1·2	24	− 7	Markree Castle.
a Birr Castle	65	23rd	46	29th	62·7	50·0	55·9	− 1·3	97	0	•	•	•	•	•	•	7	1·92	+ 1·35	*4·4*	− *1·0*	*26*	− *6*	*Birr Castle.*
b, East .. *p* Armagh	67	26, 27	46	29th	64·7	50·0	56·8	+ 0·4	104	0	0	41	58·1	−0·1	54·4	−0·4	7	1·22	+ 0·62	3·7	− 1·8	22	−10	Armagh.
a Donaghadee	64	24, 26	48	26th	61·0	50·1	55·2	− 0·8	92	0	•	•	•	•	•	•	5	1·32	+ 0·76	•	•	•	•	• •
											0	40	58·6	+0·2	55·7	+0·4	—	—	—	•	•	•	•	Trinity Coll.
											0	38	•	•	•	•	—	—	—	4·5	− 1·9	27	−11	Phœnix Park.
10. IRELAND, S.																								
a, East .. *p* Dublin, City	67	23, 24	49	29th	64·4	52·7	58·1	− 1·1	113	0	0	47	•	•	•	•	5	0·80	+ 0·32	•	•	•	•	Dublin City.
a Kilkenny	65	29th	47	29th	62·6	50·4	56·1	− 2·1	99	0	•	•	•	•	•	•	7	2·16	+ 1·59	•	•	•	•	• •
a Waterford	65	24, 26, 29	45	29th	62·6	51·4	56·6	− 1·8	102	0	•	•	•	•	•	•	4	2·24	+ 1·57	•	•	•	•	• •
b, West .. *a* Birr Castle	65	23rd	46	29th	62·7	50·0	55·9	− 1·3	97	0	•	•	•	•	•	•	7	1·92	+ 1·35	4·4	− 1·0	26	− 6	Birr Castle.
a Foynes	64	23rd	48	29th	61·7	50·9	55·9	− 2·1	97	0	•	•	•	•	•	•	7	1·46	+ 0·88	•	•	•	•	• •
a Cahir	65	24th	47	28th	62·0	50·1	55·6	− 2·2	95	0	•	•	•	•	•	•	7	2·22	—	•	•	•	•	• •
a Killarney ..	65	29th	50	29th	62·7	52·6	57·3	− 0·1	107	0	•	•	•	•	•	•	7	1·97	+ 1·29	•	•	•	•	• •
a Valencia	62	27th	49	28th	60·1	51·9	55·7	− 1·8	96	0	•	•	•	•	•	•	6	1·86	+ 1·09	4·0	− 2·0	24	−12	Valencia.
a Roche's Point ..	65	29th	50	28, 29	60·7	52·0	56·1	− 1·6	99	0	•	•	•	•	•	•	7	1·89	+ 1·25	5·7	—	35	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	63	23, 24, 26	53	24th	61·9	54·0	57·7	− 1·2	110	0	•	•	•	•	•	•	7	0·82	+ 0·37	7·5	− 0·5	47	− 3	Scilly.
a Jersey, St. Aubins ..	68	23, 27, 28	50	27th	65·7	55·0	60·0	0·0	126	0	•	•	•	•	•	•	5	0·38	− 0·11	8·6	+ 0·5	54	+ 3	St. Heliers.
a Guernsey (Villa Carey)	68	23rd	53	27th	65·3	55·0	59·8	+ 0·3	125	0	0	41	63·7	+2·4	59·8	+1·7	3	0·37	− 0·12	10·2	+ 2·0	64	+13	Guernsey.*

Additional Sunshine Means :—*Bognor, 8·3 hrs. 51 °/₀ ; Ramsgate, 9·0 hrs. 55 °/₀ ; Rhyl, 6·4 hrs. 38 °/₀ ; Salcombe, 7·6 hrs. 47 °/₀ ; Tenby, 7·4 hrs. (−0·1) 45 °/₀ (− 1 °/₀) ; Torquay, 7·2 hrs. (−0·5) 45 °/₀ (−3 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, June 29th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	51	50	50·7	+0·5	SCOTLAND, W. ..	Lamlash	55	52	53·3	+0·2
	Kirkwall	59	56	57·5	+5·1		Ballantrae	56	52	53·8	+0·4
	Wick	52	51	51·2	−0·5	ENGLAND, N.W. ..	Port Erin	56	54	55·0	+1·9
SCOTLAND, E. ..	Cromarty	59	54	56·0	+2·2		Newquay	58	57	57·4	−0·8
	Pennan Bay	52	51	51·7	−0·8	ENGLAND, S.W. ..	Scilly	59	57	57·6	—
	Aberdeen, Cove Bay	52	51	51·4	−0·2		Plymouth‡	59	58	58·2	+0·9
ENGLAND, N.E. ..	Burnmouth, Berwick	51	50	50·8	0·0		Salcombe	57	51	55·0	−0·3
	Scarborough	56	54	55·3	+2·4	IRELAND, N.W. ..	Sheephaven	58	56	56·9	+0·4
ENGLAND, E. ..	Shipwash Lightship	62	59	60·8	+3·3		Teelin	63	57	58·5	+1·2
	Margate‡	63	60	61·8	+1·9	IRELAND, S.W. ..	Cleggan	58	56	56·6	+0·4
ENGLAND, S.E. ..	Eastbourne‡	62	61	61·4	+1·5		Seafield	66	58	61·1	+3·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-SIXTH WEEK—June 23rd to June 29th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	71	44	61·4	49·7	55·2	+ 0·9	92	+ 6	0	0	5	+ 1	0·57	−0·16	3·9	−0·8	22	− 4
Eastern.																		
1. SCOTLAND, EAST ...	75	40	64·1	48·8	56·0	0·0	98	0	0	0	5	+ 2	0·65	+0·10	4·1	−1·9	24	−11
2. ENGLAND, N.E.	73	44	65·9	52·0	58·4	+ 0·8	114	+ 5	0	0	6	+ 4	1·02	+0·58	4·7	−1·9	28	−11
3. ENGLAND, EAST ...	75	48	68·4	53·4	60·4	+ 0·8	129	+ 6	0	0	4	+ 2	0·54	+0·17	6·5	−0·8	39	− 5
4. MIDLAND COUNTIES ...	74	43	65·9	51·7	58·3	− 0·9	114	− 7	0	0	5	+ 2	0·93	+0·45	5·6	−1·0	34	− 6
5. ENGLAND, S.E.	78	47	65·7	53·9	59·4	− 0·8	122	− 5	0	0	4	+ 1	0·58	+0·21	7·6	+0·1	47	+ 1
Western.																		
6. SCOTLAND, WEST ...	68	46	62·4	51·7	56·7	− 0·2	103	− 1	0	0	6	+ 3	1·04	+0·32	5·3	−0·8	31	− 5
7. ENGLAND, N.W.	69	47	63·5	52·6	57·7	− 0·5	110	− 4	0	0	6	+ 2	1·10	+0·51	5·0	−1·4	30	− 8
8. ENGLAND, S.W.	72	48	62·9	52·9	57·5	− 1·3	109	− 9	0	0	6	+ 4	1·63	+1·12	6·5	−0·5	40	− 3
9. IRELAND, NORTH ...	67	42	62·0	50·0	55·5	− 1·6	95	− 11	0	0	7	+ 3	1·42	+0·78	3·9	−1·2	23	− 7
10. IRELAND, SOUTH ...	67	45	62·2	51·3	56·4	− 2·1	101	− 14	0	0	6	+ 3	1·84	+1·24	4·7	−1·0	28	− 6
11. ENGLISH CHANNEL ...	68	50	64·3	54·7	59·2	− 0·6	120	− 4	0	0	5	+ 2	0·52	+0·12	8·8	+0·3	55	+ 2

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 4 Weeks, June 2nd to June 29th 1912.

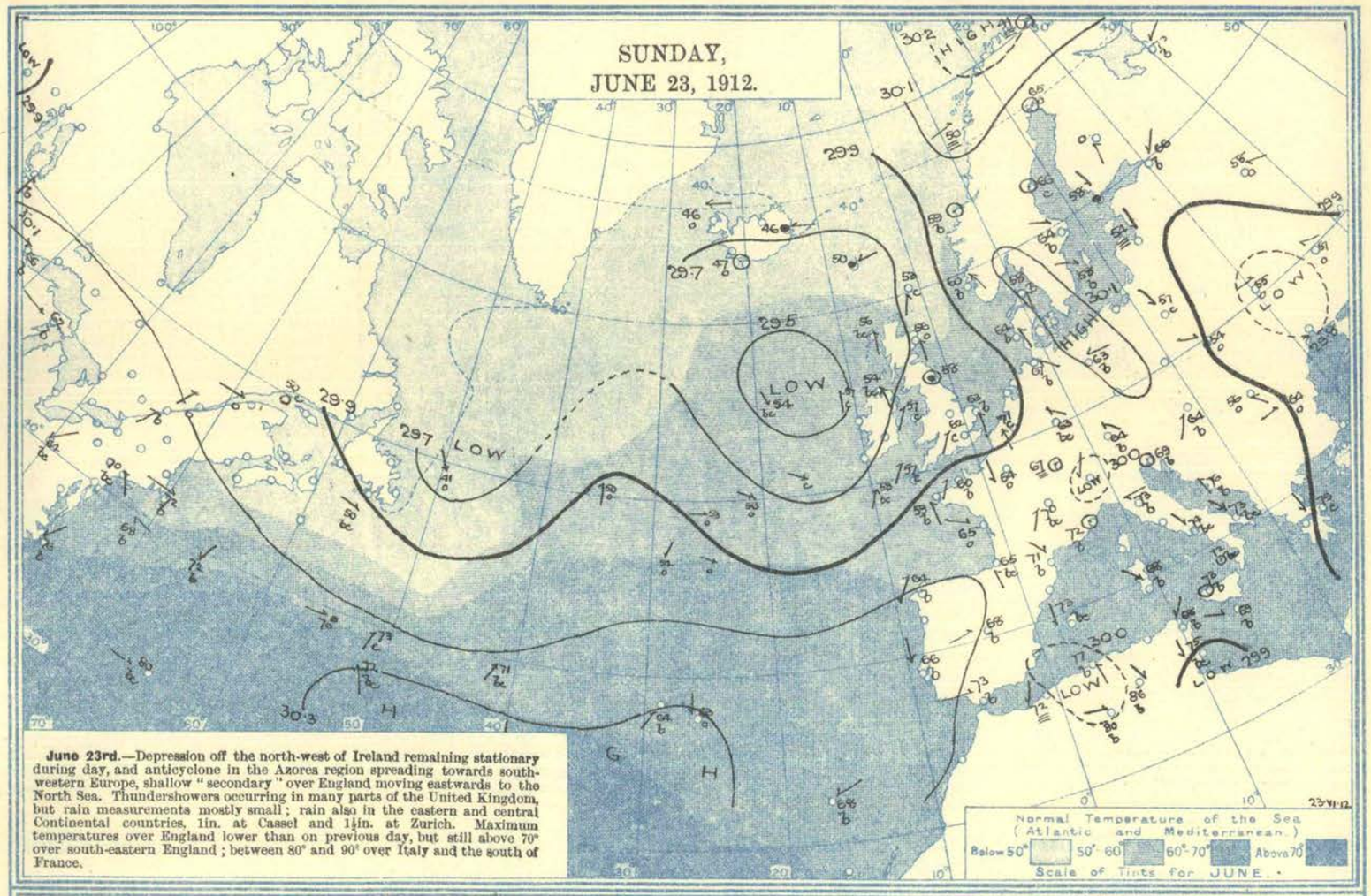
0. SCOTLAND, NORTH ...	71	38	*	*	*	*	279	− 27	0	− 2	19	+ 4	3·00	+0·40	2·9	−2·3	16	−13
Eastern.																		
1. SCOTLAND, EAST ...	75	32	*	*	*	*	305	− 38	0	− 1	22	+10	3·24	+1·20	2·2	−3·8	13	−22
2. ENGLAND, N.E	80	42	*	*	*	*	376	+ 2	0	0	23	+12	4·55	+2·84	4·3	−2·0	25	−12
3. ENGLAND, EAST ...	80	40	*	*	*	*	456	+ 30	0	0	17	+ 6	2·38	+0·52	6·7	−0·2	40	− 1
4. MIDLAND COUNTIES ...	81	38	*	*	*	*	406	− 18	0	0	19	+ 8	3·83	+1·93	5·1	−1·1	31	− 7
5. ENGLAND, S.E.	82	37	*	*	*	*	435	− 16	0	0	15	+ 4	3·16	+1·42	7·1	+0·1	44	+ 1
Western.																		
6. SCOTLAND, WEST ...	69	37	*	*	*	*	353	− 24	0	0	22	+ 9	5·40	+2·74	4·0	−2·4	24	−14
7. ENGLAND, N.W.	76	38	*	*	*	*	378	− 26	0	0	22	+ 9	4·30	+2·22	4·6	−2·0	27	−12
8. ENGLAND, S.W.	77	35	*	*	*	*	389	− 37	0	0	20	+ 8	4·82	+2·73	5·6	−1·3	35	− 8
9. IRELAND, NORTH ...	69	35	*	*	*	*	343	− 33	0	0	23	+ 8	4·59	+2·13	4·2	−1·4	25	− 8
10 IRELAND, SOUTH ...	69	33	*	*	*	*	373	− 45	0	0	24	+11	5·59	+3·25	4·8	−1·3	29	− 8
11. ENGLISH CHANNEL ...	80	45	*	*	*	*	438	− 10	0	0	19	+ 6	3·00	+1·34	7·6	−0·5	47	− 4

THE YEAR.—Aggregates, &c., for the Period of 26 Weeks, December 31st, 1911, to June 29th, 1912.

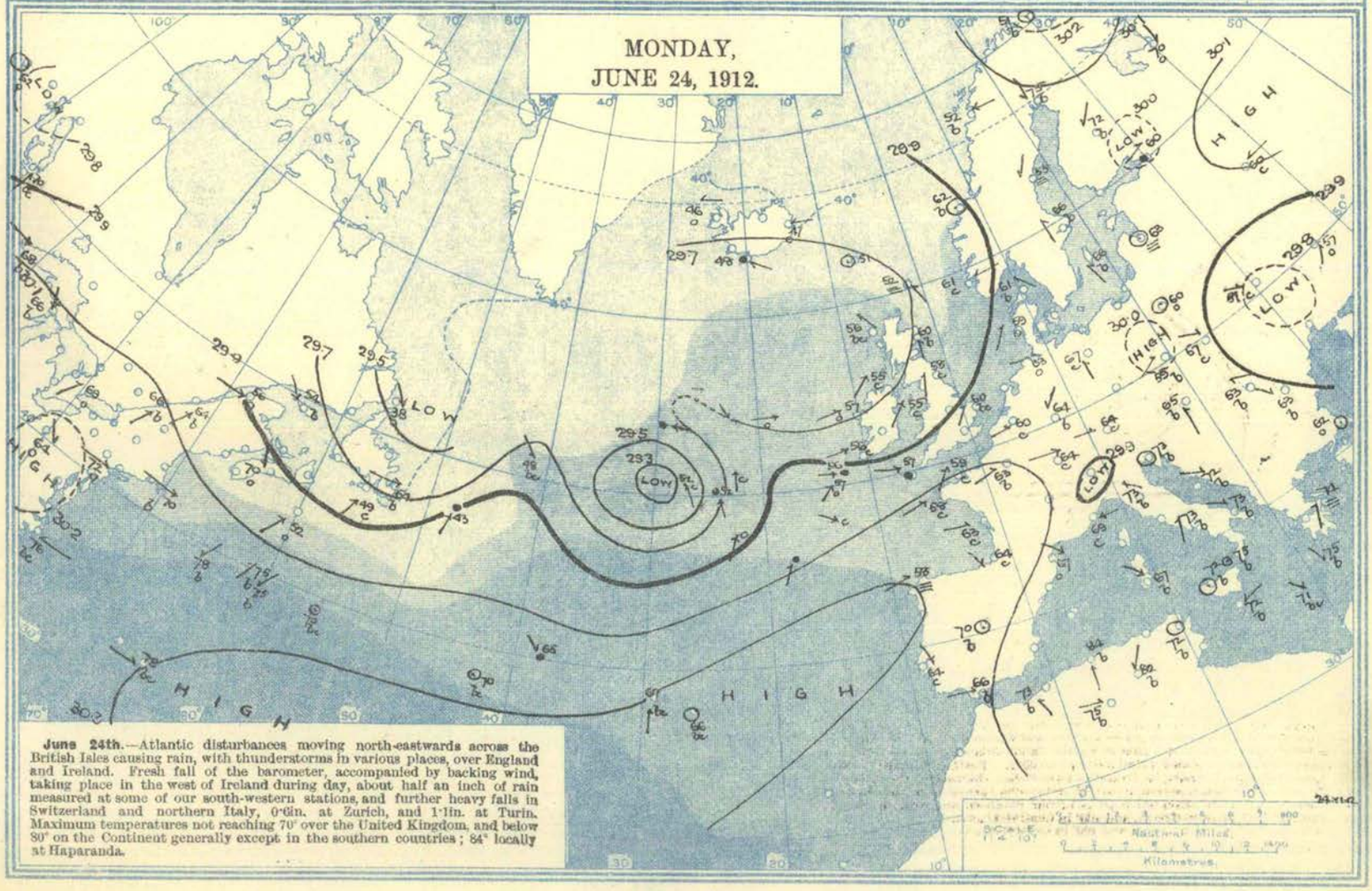
0. SCOTLAND, NORTH ...	71	7	*	*	*	*	767	+ 13	427	−130	123	+ 4	23·22	−0·22	3·3	−0·2	26	− 2
Eastern.																		
1. SCOTLAND, EAST ...	75	−5	*	*	*	*	911	+ 37	519	−101	112	+16	13·80	+0·50	3·4	−0·7	27	− 5
2. ENGLAND, N.E.	80	10	*	*	*	*	1,083	+157	373	−102	102	+14	14·21	+4·02	3·6	−0·7	29	− 5
3. ENGLAND, EAST ...	82	14	*	*	*	*	1,337	+220	274	−247	94	+ 8	10·60	+0·42	4·3	−0·2	35	− 2
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	1,258	+115	373	−160	95	+10	15·81	+4·20	3·7	−0·4	29	− 3
5. ENGLAND, S.E.	82	13	*	*	*	*	1,356	+138	218	−163	89	+ 7	13·94	+2·59	4·6	+0·1	37	0
Western.																		
6. SCOTLAND, WEST ...	71	12	*	*	*	*	1,003	+ 34	329	− 96	112	+10	22·41	+1·93	3·6	−0·5	29	− 4
7. ENGLAND, N.W.	76	7	*	*	*	*	1,116	+ 88	298	− 88	103	+ 9	16·56	+2·19	3·8	−0·3	31	− 2
8. ENGLAND, S.W.	77	9	*	*	*	*	1,264	+ 73	189	−112	110	+18	21·10	+4·93	4·0	−0·6	32	− 5
9. IRELAND, NORTH ...	69	15	*	*	*	*	1,088	+ 52	237	−108	106	− 4	17·80	+1·38	3·5	−0·4	28	− 4
10. IRELAND, SOUTH ...	71	13	*	*	*	*	1,294	+ 57	167	− 92	125	+26	21·49	+3·63	3·5	−0·9	28	− 7
11. ENGLISH CHANNEL ...	80	27	*	*	*	*	1,635	+268	44	− 65	107	+ 7	16·50	+2·92	5·1	−0·4	41	− 3

NOTES ON TABLE IV.

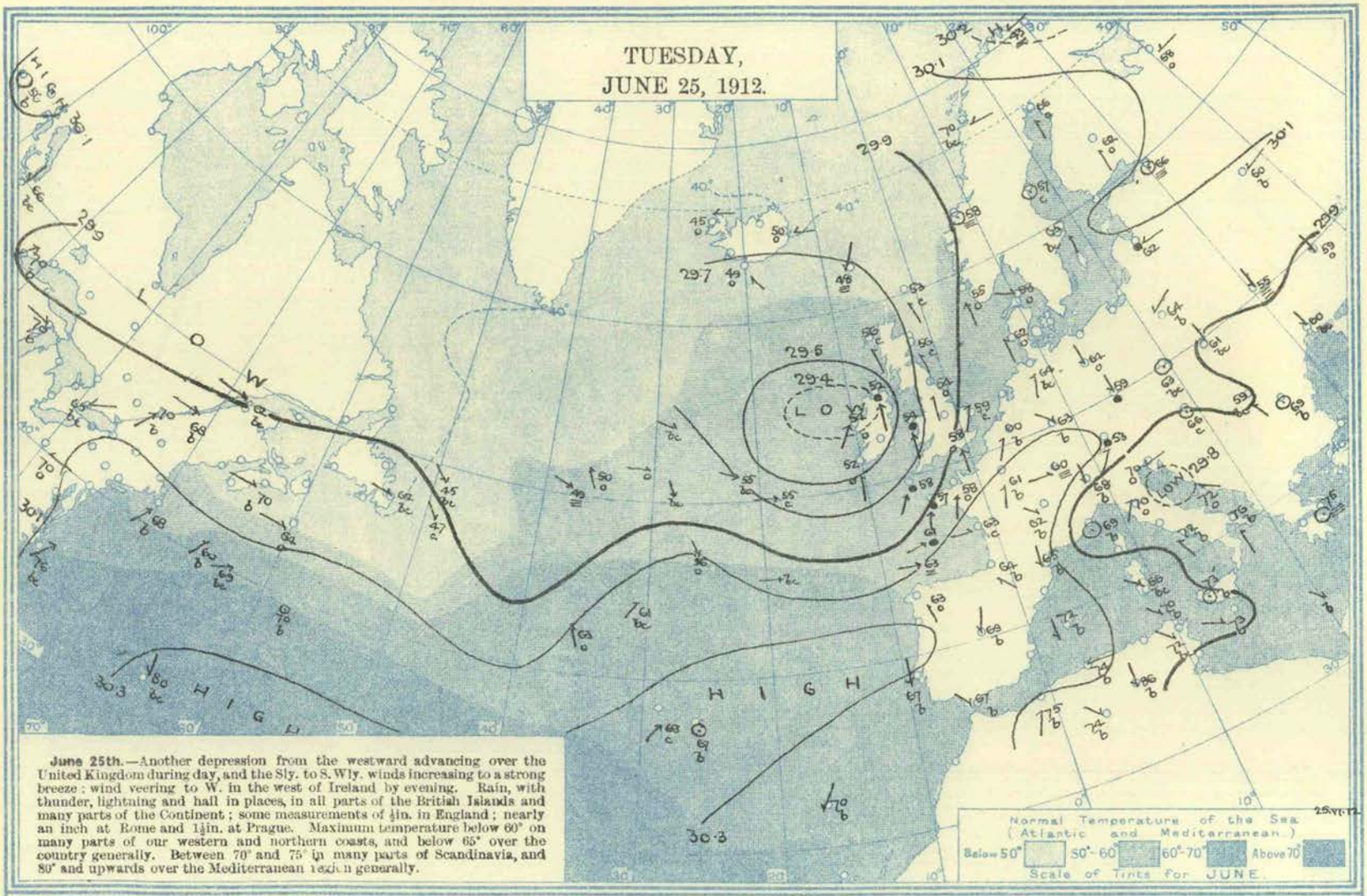
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



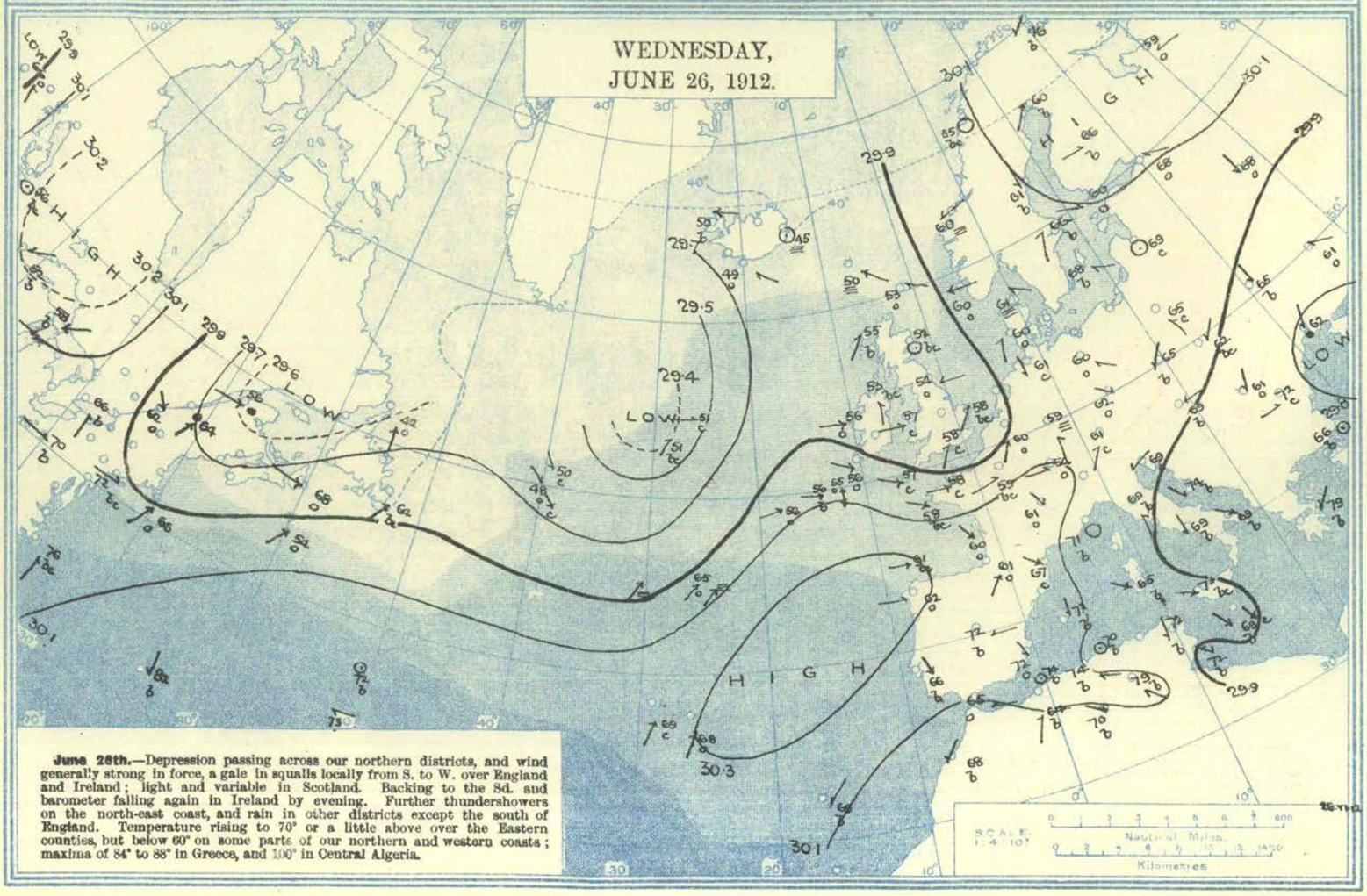
June 23rd.—Depression off the north-west of Ireland remaining stationary during day, and anticyclone in the Azores region spreading towards south-western Europe, shallow "secondary" over England moving eastwards to the North Sea. Thundershowers occurring in many parts of the United Kingdom, but rain measurements mostly small; rain also in the eastern and central Continental countries, 1in. at Cassel and 1¼in. at Zurich. Maximum temperatures over England lower than on previous day, but still above 70° over south-eastern England; between 80° and 90° over Italy and the south of France.



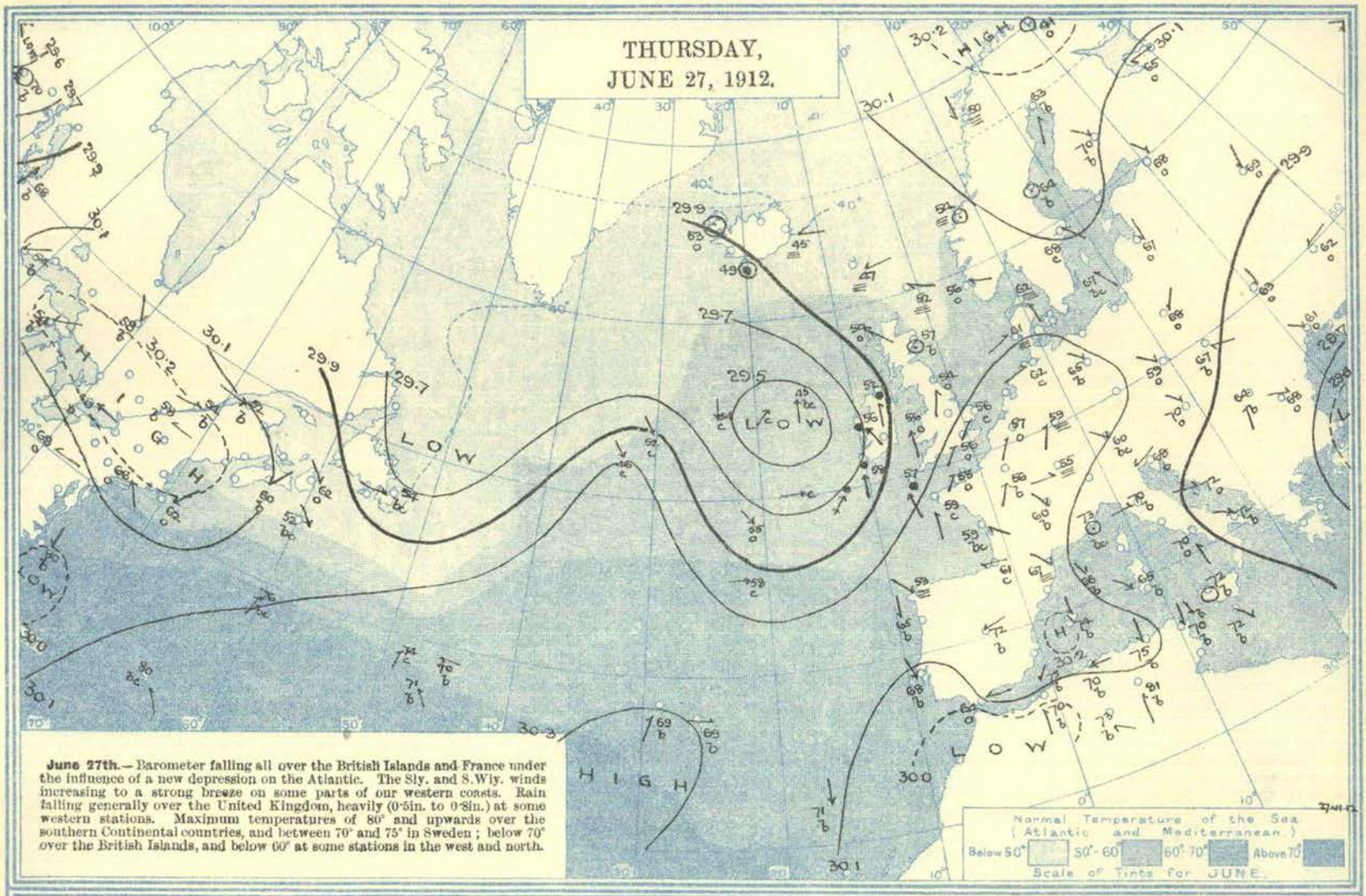
June 24th.—Atlantic disturbances moving north-eastwards across the British Isles causing rain, with thunderstorms in various places, over England and Ireland. Fresh fall of the barometer, accompanied by backing wind, taking place in the west of Ireland during day, about half an inch of rain measured at some of our south-western stations, and further heavy falls in Switzerland and northern Italy, 0·6in. at Zurich, and 1·1in. at Turin. Maximum temperatures not reaching 70° over the United Kingdom, and below 80° on the Continent generally except in the southern countries; 84° locally at Haparanda.



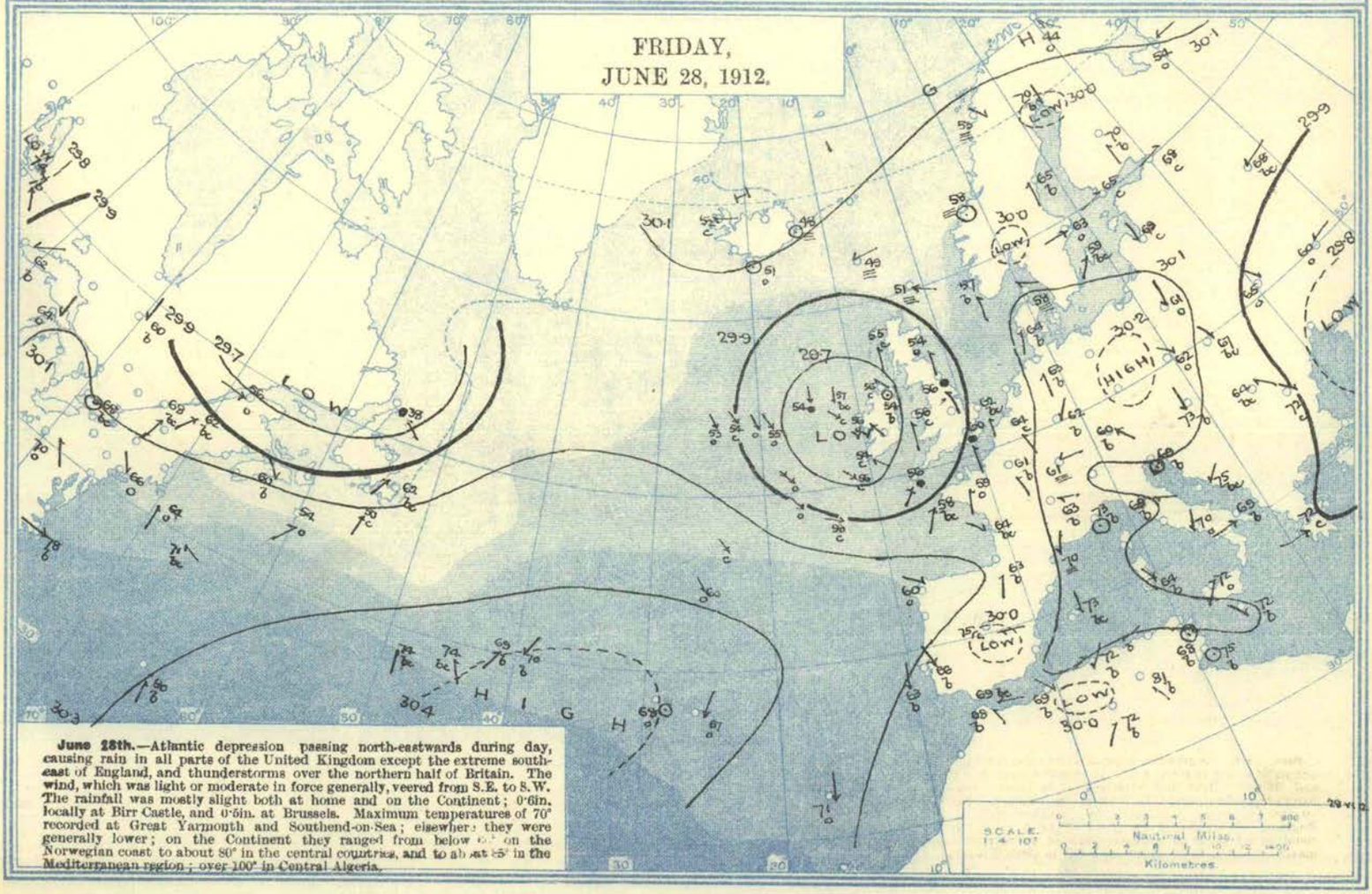
June 25th.—Another depression from the westward advancing over the United Kingdom during day, and the Sly. to S.Wly. winds increasing to a strong breeze; wind veering to W. in the west of Ireland by evening. Rain, with thunder, lightning and hail in places, in all parts of the British Islands and many parts of the Continent; some measurements of ½in. in England; nearly an inch at Rome and 1¼in. at Prague. Maximum temperature below 60° on many parts of our western and northern coasts, and below 65° over the country generally. Between 70° and 75° in many parts of Scandinavia, and 80° and upwards over the Mediterranean region generally.



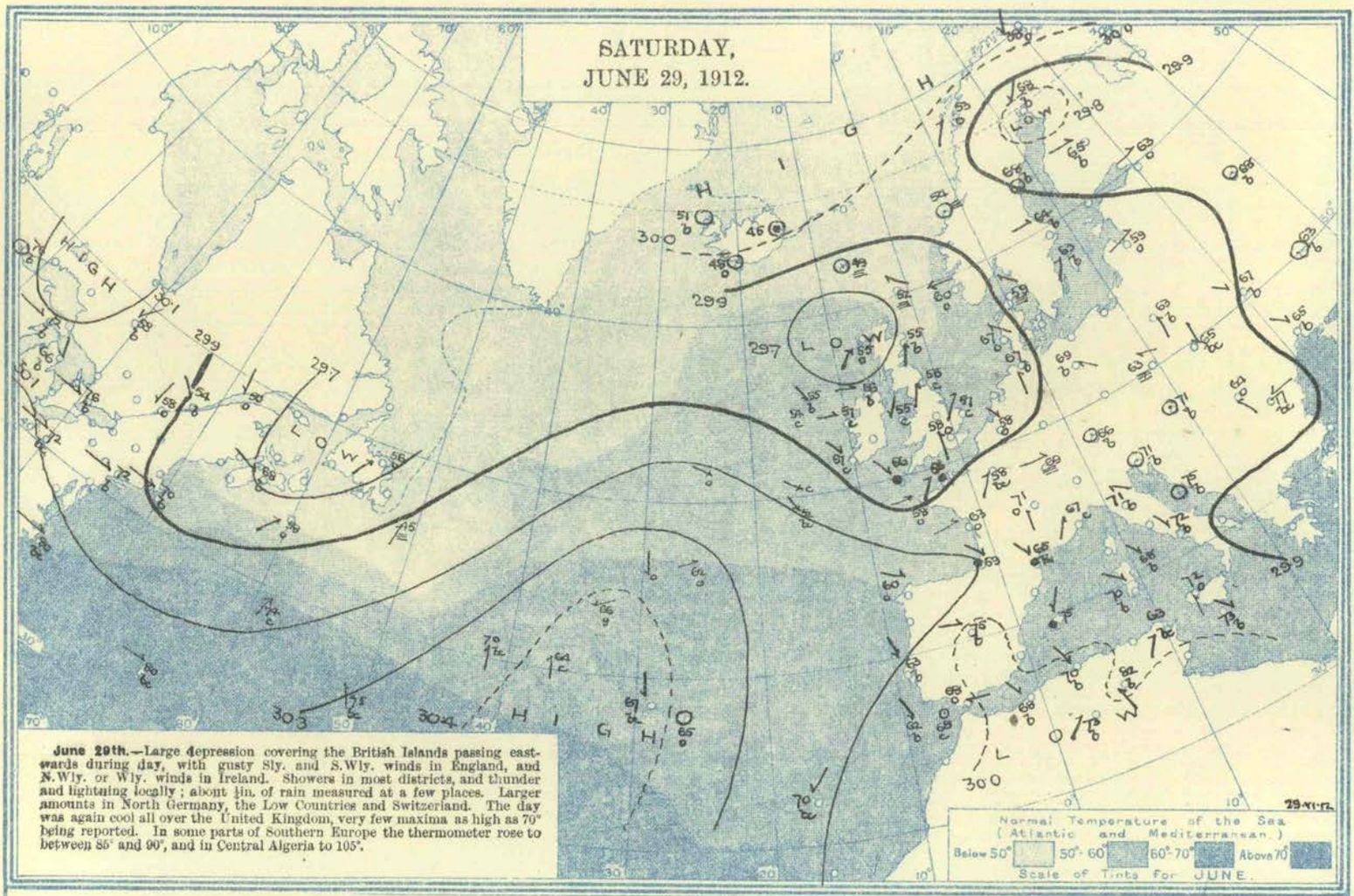
June 26th.—Depression passing across our northern districts, and wind generally strong in force, a gale in squalls locally from S. to W. over England and Ireland; light and variable in Scotland. Backing to the Sd. and barometer falling again in Ireland by evening. Further thundershowers on the north-east coast, and rain in other districts except the south of England. Temperature rising to 70° or a little above over the Eastern counties, but below 60° on some parts of our northern and western coasts; maxima of 84° to 88° in Greece, and 100° in Central Algeria.



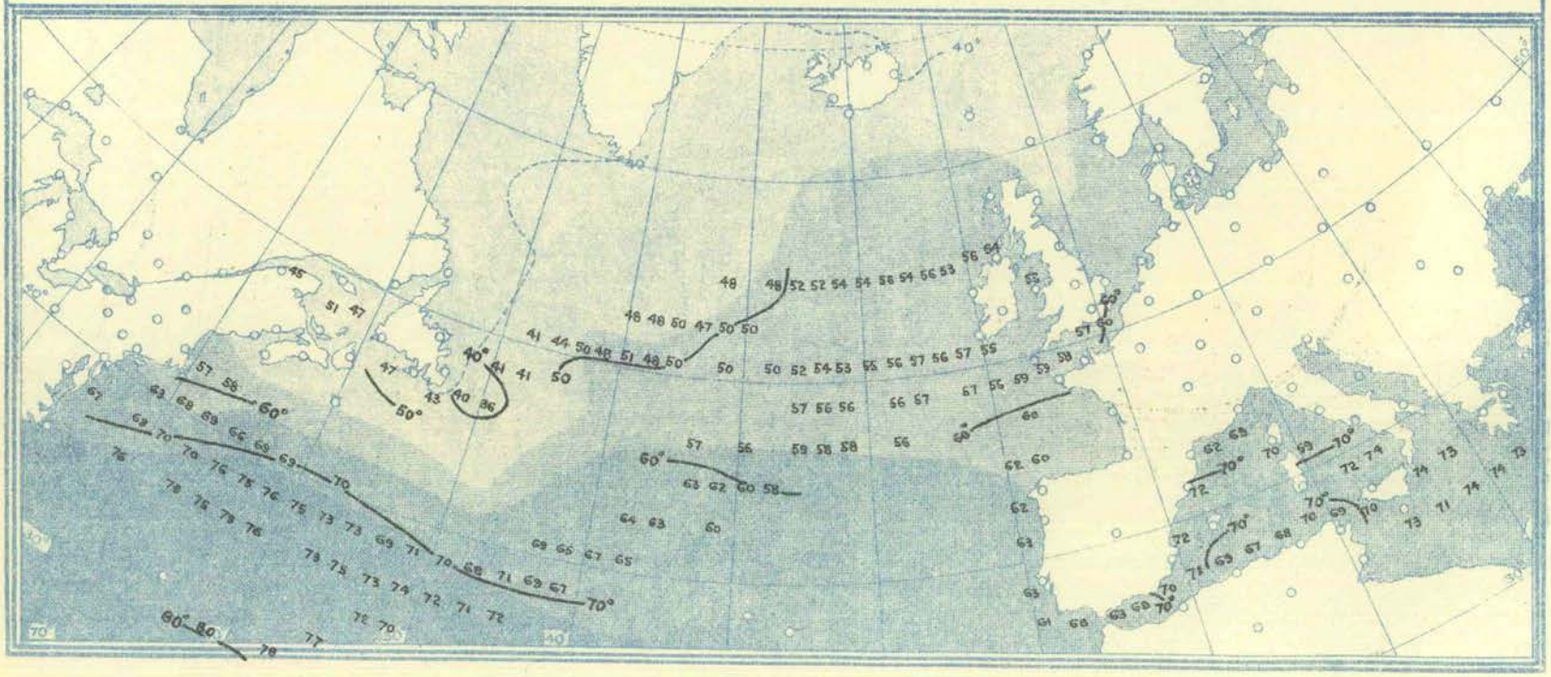
June 27th.—Barometer falling all over the British Islands and France under the influence of a new depression on the Atlantic. The Sly. and S.Wly. winds increasing to a strong breeze on some parts of our western coasts. Rain falling generally over the United Kingdom, heavily (0·5in. to 0·8in.) at some western stations. Maximum temperatures of 80° and upwards over the southern Continental countries, and between 70° and 75° in Sweden; below 70° over the British Islands, and below 60° at some stations in the west and north.



June 28th.—Atlantic depression passing north-eastwards during day, causing rain in all parts of the United Kingdom except the extreme south-east of England, and thunderstorms over the northern half of Britain. The wind, which was light or moderate in force generally, veered from S.E. to S.W. The rainfall was mostly slight both at home and on the Continent; 0·6in. locally at Birr Castle, and 0·5in. at Brussels. Maximum temperatures of 70° recorded at Great Yarmouth and Southend-on-Sea; elsewhere they were generally lower; on the Continent they ranged from below 60° on the Norwegian coast to about 80° in the central countries, and to about 85° in the Mediterranean region; over 100° in Central Algeria.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 29TH JUNE, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); → = a moderate breeze to high wind (Forces 4 to 7); → a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) | No. 27. | TWENTY-SEVENTH WEEK, SUNDAY, JUNE 30TH, TO SATURDAY, JULY 6TH, 1912. | *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather.—Early in the week the weather was extremely unsettled, with thunderstorms in a few scattered localities on Sunday, and in many parts of England on Monday. After Tuesday a general improvement took place, but at the close of the week thunderstorms were again experienced over a large portion of our southern and eastern counties.

Temperature was below the average in all districts excepting Scotland N., the deficit being slight in Scotland E. and W., but rather large (more than 3°) in England N.E. and the Midland Counties. The highest readings were recorded very generally on July 6th, but in the north-east of Great-Britain they occurred rather commonly on June 30th. As a rule the thermometer did not rise much above 70°, but at Camden Square it reached 77° on the 6th, while at Balmoral it is reported to have reached 78° on the 5th. The lowest readings occurred at times varying greatly in different parts of the country, and ranged from 40° in Scotland N. and E. and 41° in England N.W. to 47° in England E. and to 52° in the English Channel. At a depth of 1 foot the mean temperature of the soil differed but little from the average, being slightly below it in some places and above it in others. At a depth of 4 feet it was mostly above the normal.

Mean Temperature of the Sea was above the average on most parts of our west, south and east coasts, where the water was warmer than in the corresponding week of last year. In the north, and on the coasts of Devon and Cornwall, it was mostly below the average.

Rainfall. Over eastern, central and southern England the total amount was in excess of the normal. Elsewhere there was a general deficiency, and in most of the western districts the deficiency was large. The largest individual fall reported was 1·3 in. at Nairn on June 30th; at some places in the south and east of England considerable amounts were experienced with the thunderstorms of Saturday.

Bright Sunshine was below the average, especially over eastern, central and southern England. The daily mean amount was largest, 5·4 hours, in Scotland W. In England N.E. it did not amount to as much as 2½ hours, and in the Midland Counties it was only 2 hours.

Barometer and Wind. Early in the week a depression passed from the north of Scotland to the Danish coasts, while on July 2nd a secondary disturbance, which had developed over the North Sea, moved southwards, across eastern England to France, where it rapidly dispersed. During this period the wind shifted from West to North, and finally to North-East, and blew strongly on many parts of our north-western and north-eastern coasts. After the middle of the period an anticyclone extended over the United Kingdom from the Atlantic, and the wind in the north became light and variable. On July 6th a small depression advanced northward from the Bay of Biscay, and at night its centre moved in a north-easterly direction across the south-east of England.

THE WEEK.

For explanation of the terms "Unusual" &c., *see* p. 107		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Moderate	Deficient
	Rainfall ...	Light	Moderate	Heavy	Heavy	Moderate	Heavy	Very light	Light	Moderate	Very light	Light	Moderate
	Sunshine ...	Moderate	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Moderate	Scanty	Scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 5 weeks from June 2nd, 1912.	Warmth ...	0 * 2	0 * 2	1 * 2	1 * 1	1 * 2	0 * 2	0 * 1	0 * 2	0 * 3	0 * 2	0 * 3	1 * 2
	Rainfall ...	1 * 1	2 * 0	5 * 0	3 * 0	3 * 0	4 * 1	4 * 1	4 * 1	3 * 0	3 * 1	4 * 1	1 * 1
	Sunshine ...	0 * 3	0 * 5	0 * 4	2 * 2	0 * 3	0 * 2	0 * 2	0 * 4	0 * 4	0 * 3	0 * 4	0 * 2

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(25299—24.) Wt. 173—814. 450. 7/12. D & S. Gp 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.					Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*60*	*4th*	*45*	*4th*	*54·9*	*47·1*	*50·7*	—	*61*	*0*	•	•	53·5	•	•	•	*0*	*0·00*	—	*1·3*	—	7	—	*Baltasound.*
a Islands .. *a* Lerwick	59	4th	46	4th	54·7	47·4	50·8	− 0·3	62	0	•	•	•	•	•	•	0	0·00	—	2·5	− 2·2	14	−12	Deerness.
a Stornoway	64	4th	44	4th	59·1	49·4	53·9	+ 0·6	83	0	•	•	•	•	•	•	2	0·59	− 0·04	2·9	− 2·7	16	−15	Stornoway.
a Castlebay, Barra Isd. ..	*61*	*5th*	*50*	*4th*	*57·9*	*51·3*	*54·4*	− *1·7*	*87*	*0*	•	•	•	•	•	•	*2*	*0·20*	—	*5·0*	—	*29*	—	*Castlebay.*
a Wick	59	4th	46	4th	55·1	47·9	51·3	− 2·2	65	0	•	•	•	•	•	•	0	0·00	− 0·54	•	•	•	•	
b, Main- *p* Strathpeffer ..	71	4th	40	4th	66·4	48·8	57·0	+ 1·7	105	0	•	•	•	•	•	•	2	0·16	− 0·41	5·3	+ 0·5	30	+ 3	Strathpeffer.
land. *p* Glencarron ..	73	5th	45	4th	61·4	50·0	55·3	+ 1·8	93	0	•	•	•	•	•	•	2	0·31	− 0·80	•	•	•	•	
p Fort Augustus..	74	4th	45	4th	62·3	50·9	56·2	+ 1·0	99	0	•	•	•	•	•	•	3	0·62	+ 0·03	3·9	− 0·1	22	0	Fort Augustus.
p Fort William .. S	73	5th	48	4th	66·7	50·9	58·3	+ 2·4	114	0	•	•	•	•	•	•	2	0·27	− 0·73	•	•	•	•	
1. SCOTLAND, E.											0	35	57·0	0·0	52·7	−0·1	—	—	—	4·9	—	28	—	Crathes S.
p Gordon Castle.. S	72	6th	48	5th	63·0	49·9	56·0	− 0·3	98	0	•	•	•	•	•	•	2	0·91	+ 0·31	*4·5*	—	*26*	—	*Gordon Castle.*
a Nairn	67	4, 5	42	4th	62·3	48·7	55·0	− 0·5	91	0	•	•	•	•	•	•	3	1·50	+ 1·00	4·7	—	27	—	Nairn.
a Aberdeen ..	68	30th	45	5th	59·9	49·4	54·3	− 0·9	86	0	•	•	•	•	51·6	•	3	0·23	− 0·31	2·8	− 2·9	16	−17	Aberdeen.
a Balmoral ..	78	5th	40	4th	69·7	46·0	57·0	+ 3·3	105	0	0	36	•	•	•	•	1	0·11	− 0·43	•	•	•	•	Balmoral.
p Crieff	74	4th	48	1, 6	66·1	50·3	57·7	+ 0·6	110	0	•	•	•	•	•	•	3	0·15	− 0·51	4·5	—	26	—	Balruddery.
a Leith .. .. S	65	30th	51	30, 3-6	61·1	51·6	56·0	− 1·2	98	0	•	•	•	•	•	•	2	0·25	− 0·28	•	•	•	•	
p West Linton .. S	67	4, 6	45	30th	62·0	47·7	54·4	− 0·5	87	0	0	45	•	•	•	•	3	0·39	—	*3·9*	—	*23*	—	*West Linton.*
p Marchmont .. S	67	6th	42	6th	60·4	46·1	52·8	− 2·7	76	0	0	37	56·1	−1·1	•	•	2	0·47	− 0·16	3·3	− 2·6	19	−15	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	67	30th	45	6th	58·9	48·7	53·4	− 2·6	80	0	0	40	55·4	−1·6	53·7	+0·3	4	0·60	+ 0·05	2·7	—	16	—	Cockle Park.
a Shields	65	30th	46	6th	57·9	48·7	53·0	− 3·3	77	0	•	•	•	•	•	•	4	0·52	+ 0·02	•	•	•	•	*Newcastle.*
p Durham	65	30th	44	6th	58·3	47·9	52·7	− 4·5	75	0	0	44	•	•	•	•	3	0·51	− 0·05	1·3	− 4·3	8	−26	Durham.
a, North .. *p* Rounton	67	30th	48	4, 5	59·1	49·0	53·7	− 3·2	82	0	0	42	58·8	•	•	•	4	0·85	+ 0·33	•	•	•	•	Rounton.
a West Witton ..	*68*	*30th*	*33*	*4th*	*60·0*	*46·1*	*52·6*	—	*74*	*0*	0	31	47·7	•	53·1	•	*2*	*0·48*	—	•	•	•	•	*West Witton.*
p Scarborough ..	65	30th	47	6th	59·0	51·3	54·9	− 2·5	90	0	•	•	•	•	56·3	•	4	0·50	+ 0·02	1·8	—	11	—	Scarborough.
p York	68	30th	48	6th	61·6	51·1	56·0	− 2·9	98	0	•	•	58·5	+0·8	55·6	+1·4	4	0·75	+ 0·23	1·8	− 4·0	11	−24	York.
a Spurn Head ..	65	30th	52	30, 2-6	60·7	52·3	56·2	− 1·7	99	0	0	44	58·9	+0·4	54·7	+1·2	3	0·42	+ 0·06	*1·6*	—	*10*	—	*Hull.*
b, South .. *a* Lincoln	67	6th	48	30th	62·6	51·4	56·6	− 3·1	102	0	•	•	57·7	−1·0	55·6	+1·0	4	0·90	+ 0·43	•	•	•	•	Lincoln.
a Fulbeck	73	6th	47	30th	63·6	50·3	56·5	− 2·9	102	0	0	45	59·4	−2·2	55·3	−0·5	4	0·82	+ 0·35	3·1	—	19	—	Ranceby.
											•	•	•	•	•	•	—	—	—	3·5	—	21	—	Skegness.
3. ENGLAND, E.											0	48	62·2	+1·1	58·3	+1·3	—	—	—	*5·2*	—	*32*	—	*Lowestoft.*
p Cromer	67	30th	48	30th	62·7	52·3	57·1	− 1·4	106	0	•	•	•	•	•	•	5	0·97	—	2·7	—	16	—	Cromer.
p Hillington ..											•	•	•	•	•	•	—	—	—	•	—	•	—	Hillington.
a, North .. *a* Yarmouth ..	68	30th	50	30th	63·3	53·6	58·1	− 0·4	113	0	•	•	62·6	−0·4	59·0	−0·3	5	1·07	+ 0·57	5·9	—	36	—	Yarmouth.
a Norwich ..	71	6th	50	30th	65·1	53·7	59·0	− 0·1	119	0	0	43	61·6	•	•	•	4	0·79	—	*4·1*	—	*25*	—	*Norwich.*
p Geldeston ..	67	30, 6	49	30th	64·6	53·7	58·8	0·0	118	0	•	•	•	•	•	•	5	0·89	+ 0·43	4·9	− 1·8	30	−12	Geldeston.
p Cambridge	74	6th	47	30th	65·7	52·1	58·4	− 1·8	115	0	0	41	61·2	+0·4	58·9	+1·6	4	1·02	+ 0·52	4·0	− 2·7	24	−17	Cambridge.
a Felixstowe ..	*66*	*30, 1, 6*	*51*	*2nd*	*64·4*	*54·3*	*59·0*	− *0·7*	*119*	*0*	•	•	•	•	•	•	*3*	*0·29*	—	*6·0*	—	*37*	—	*Felixstowe.*
a Clacton-on-Sea ..	70	6th	51	2nd	65·7	54·0	59·4	− 0·2	122	0	0	46	60·2	+0·9	58·0	+0·4	3	0·90	—	5·1	—	31	—	Clacton.
b, South .. *a* Rothamsted ..	73	6th	47	30th	65·1	51·3	57·7	− 1·1	110	0	•	•	•	•	•	•	5	0·39	− 0·14	2·8	− 3·9	17	−24	Rothamsted.
a Shoeburyness ..	*70*	*6th*	*52*	*2, 3*	*65·4*	*53·7*	*59·1*	− *2·4*	*120*	*0*	0	48	62·3	−0·1	•	•	*2*	*0·41*	+ *0·01*	*4·0*	—	*25*	—	*Southend.*
p Tottenham	73	6th	51	6th	67·0	53·0	59·5	− 1·3	123	0	0	49	•	•	59·2	+1·0	3	0·60	—	2·5	—	15	—	Tottenham.
4. MIDLAND COUNTIES.											0	44	57·2	−1·9	53·8	+0·5	—	—	—	*0·8*	—	*5*	—	*Huddersfield.*
a Harrogate	66	30th	48	3, 4	59·3	48·9	53·7	− 3·1	82	0	0	42	55·7	+0·3	54·4	+0·9	2	0·65	+ 0·11	1·5	—	9	—	Harrogate.
a Bawtry	65	2, 3, 5, 6	50	3, 6	64·1	52·0	57·6	− 1·5	109	0	0	43	58·3	•	56·0	•	4	0·53	+ 0·06	2·1	− 3·4	13	−20	Worksop.
p Buxton	*64*	*30th*	*44*	*30th*	*58·6*	*48·0*	*52·9*	− *3·5*	*76*	*0*	0	43	57·1	−0·7	52·7	+0·9	*4*	*0·62*	− *0·17*	*1·6*	—	*10*	—	*Buxton.*
a East .. *a* Nottingham ..	69	30th	47	30th	63·7	51·4	57·1	− 2·1	106	0	0	42	58·6	−0·7	57·0	+1·4	3	0·48	− 0·02	2·5	—	15	—	Nottingham.
p Birmingham, Edgbsn.	67	6th	48	30th	60·6	51·0	55·5	− 3·0	95	0	0	36	53·4	−0·9	51·6	+0·7	4	0·89	+ 0·39	0·8	—	5	—	Birmingham.
a Raunds	72	6th	46	30th	65·3	50·7	57·5	− 2·6	109	0	0	41	60·0	•	55·7	•	5	0·74	—	•	•	•	•	Raunds.
a Oxford	73	6th	49	30, 5	64·6	52·0	57·9	− 2·1	111	0	0	—	•	•	•	•	5	0·72	+ 0·18	2·1	− 4·4	13	−27	Oxford.
											0	? 46	57·2	0·0	53·7	+1·0	—	—	—	1·2	—	7	—	Sheffield.
a Cheadle	70	3rd	46	1st	62·3	49·1	55·2	− 1·7	92	0	0	39	•	•	•	•	4	0·56	− 0·04	•	•	•	•	Cheadle.
p Shrewsbury ..	70	6th	48	30th	63·9	51·7	57·4	− 1·1	108	0	0	45	•	•	•	•	3	0·61	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	70	6th	48	30th	64·0	51·7	57·4	− 2·0	108	0	0	43	•	•	•	•	4	0·28	− 0·22	•	•	•	•	Hereford.
a Cirencester ..	70	6th	44	30th	63·1	49·4	55·8	− 2·4	97	0	0	42	57·5	•	55·3	•	5	0·50	− 0·06	3·0	− 3·4	18	−21	Cirencester.
a Bath	73	6th	48	5th	66·4	52·4	58·9	− 0·7	118	0	•	•	60·9	−0·8	58·7	+0·6	4	0·70	+ 0·14	3·0	—	18	—	Bath.
5. ENGLAND, S.E.											0	42	62·9	+3·3	59·0	+1·5	—	—	—	•	•	•	•	Canterbury.
p Kew	72	6th	51	30th	65·1	53·9	59·1	− 1·4	120	0	0	45	60·2	−0·1	56·9	+0·8	2	0·62	+ 0·11	2·0	− 4·6	12	−28	Kew.
a Marlborough ..	70	6th	45	5th	63·6	49·3	56·0	− 2·8	98	0	0	40	•	•	•	•	4	0·66	+ 0·08	1·1	− 5·0	7	−31	Mariborough.
a Margate	68	6th	52	1, 3, 4	64·7	54·1	59·0	− 1·7	119	0	•	•	60·3	+1·0	57·0	+0·6	3	0·60	+ 0·16	3·0	− 3·2	28	−10	Margate.
a Wisley, Surrey ..	72	6th	49	5th	65·1	52·0	58·1	− 3·2	113	0	0	40	60·9	+0·3	58·4	+1·1	4	0·71	—	2·2	—	14	—	Wisley
a Swarraton	71	6th	49	5th	64·1	51·7	57·5	− 1·0	109	0	0	45	62·4	−0·2	58·9	+1·1	3	0·50	− 0·02	3·6	—	22	—	Worthing.
a Tunbridge Wells ..	71	6th	47	2nd	65·3	50·9	57·6	− 1·7	109	0	0	43	61·0	−1·0	•	•	3	0·29	− 0·21	3·2	− 3·6	20	−22	Tunbridge Wells.
a Dungeness	67	6th	47	2nd	64·6	53·4	58·6	− 0·7	116	0	0	•	•	•	•	•	2	0·87	+ 0·49	4·2	—	26	—	Littlestone.
p Hastings.. ..	72	6th	49	2nd	66·1	53·6	59·4	− 0·1	122	0	0	47	62·9	•	59·6	•	3	0·27	− 0·19	*4·0*	− *3·7*	*25*	*−23*	*Hastings.*
p Southampton ..	73	6th	50	30th	66·6	53·0	59·3	− 2·1	121	0	•	•	•	•	•	•	3	1·16	+ 0·66	2·9	− 4·2	18	−26	Southampton.
a Ventnor	70	6th	52	2nd	65·6	54·3	59·6	− 1·2	123	0	•	•	•	•	•	•	3	0·46	− 0·01	3·8	− 2·9	24	−18	Ventnor.
											0	46	61·4	−1·8	59·3	+0·3	—	—	—	*3·3*	—	*21*	—	*Portsmouth.*
											•	•	61·8	•	58·9	•	—	—	—	3·8	− 3·9	24	−24	Eastbourne.
											•	•	60·2	•	59·3	•	—	—	—	*2·9*	—	*18*	—	*Bournemouth.*
LONDON.											0	45	•	•	60·2	•	—	—	—	*3·5*	− *3·9*	*22*	*−24*	*Brighton.*
a Westminster	*72*	*6th*	*52*	*30th*	*66·0*	*54·4*	*59·8*	− *1·3*	*125*	*0*	0	49	•	•	•	•	*2*	*0·47*	− *0·03*	*2·1*	− *3·7*	*13*	*−23*	*Westminster.*
a Greenwich	*74*	*6th*	*51*	*30, 1*	*67·7*	*52·6*	*59·6*	− *2·4*	*123*	*0*	0	42	•	•	•	•	*3*	*0·37*	− *0·13*	*2·5*	− *4·7*	*15*	*−29*	*Greenwich.*
a Hampstead ..	*70*	*6th*	*50*	*30, 2*	*65·0*	*51·7*	*57·9*	—	*111*	*0*	0	41	•	•	•	•	*3*	*0·43*	—	*2·8*	—	*17*	—	*Hampstead.*
a Camden Square ..	*77*	*6th*	*51*	*30, 2*	*68·9*	*52·9*	*60·3*	—	*128*	*0*	0	46	•	•	•	•	*2*	*0·42*	—	*1·9*	—	*12*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	68	6th	43	5th	63·0	49·4	55·7	− 1·5	96	0	•	•	•	•	•	•	1	0·19	− 0·64	•	•	•	•	
p Glasgow	68	4, 5	49	6th	64·4	51·1	57·3	+ 0·8	107	0	0	40	•	•	•	•	1	0·05	− 0·61	3·9	− 1·2	23	− 7	Glasgow.
p Rothesay	73	4th	47	4th	67·0	51·1	58·5	+ 1·1	116	0	•	•	•	•	53·5	−0·5	2	0·10	− 0·70	•	•	•	•	
a Kilmarnock ..	73	5th	43	2nd	65·9	48·7	56·7	− 0·5	103	0	•	•	•	•	•	•	2	0·07	—	*5·1*	—	*30*	—	*Kilmarnock.*
a Colmonell ..	68	6th	47	30, 2, 4	64·8	49·6	56·6	− 0·2	102	0	0	42	•	•	•	•	0	0·00	− 0·66	•	•	•	•	
p Dumfries	71	6th	47	30th	64·3	50·0	56·7	− 1·3	103	0	0	43	59·9	•	56·3	•	2	0·23	− 0·42	*5·3*	—	*31*	—	*Dumfries.*
p Cally, Gatehouse S	67	6th	47	30, 2, 6	65·3	48·3	56·2	− 0·9	99	0	•	•	•	•	•	•	3	0·19	− 0·57	•	•	•	•	
b I. OF MAN.																								
p Douglas	65	6th	50	4th	61·3	51·3	56·0	− 0·2	98	0	0	48	•	•	•	•	1	0·07	− 0·57	6·9	0·0	41	0	Douglas.
											0	41	56·7	−1·0	53·0	−0·2	—	—	—	*2·6*	—	*15*	—	*Burnley.*
											0	42	•	•	•	•	—	—	—	4·2	—	25	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	71	6th	49	3rd	64·3	50·4	56·9	+ 0·8	104	0	0	44	59·9	•	54·2	•	3	0·17	− 0·53	5·7	—	34	—	Aspatria.
p Newton Rigg ..	68	4, 6	41	30th	63·6	46·3	54·4	− 1·6	87	0	0	39	58·7	+0·1	53·9	+0·1	4	0·50	− 0·09	4·9	− 1·4	29	− 9	Newton Rigg.
p Stonyhurst	66	6th	49	30th	62·0	50·6	55·9	− 2·3	97	0	0	44	•	•	•	•	3	0·53	− 0·26	2·8	− 3·4	17	−20	Stonyhurst.
p Blackpool	68	6th	45	4th	63·7	50·3	56·5	− 1·5	102	0	0	36	58·3	•	54·4	•	2	0·13	− 0·42	6·1	− 0·2	37	− 2	Blackpool.
p Manchester (Whit Pk.)	*67*	*6th*	*49*	*30th*	*62·3*	*52·4*	*57·0*	—	*105*	*0*	*0*	*41*	•	•	•	•	*2*	*0·46*	—	*2·3*	—	*14*	—	*Whit Park.*
a Liverpool (Bidston) ..	69	6th	51	3, 4	63·0	52·6	57·4	− 1·8	108	0	•	•	•	•	•	•	1	0·06	− 0·51	*3·5*	—	*21*	—	*Liverpool.*
a Hawarden Bridge ..	70	6th	49	30th	63·5	52·9	57·8	− 1·2	111	0	0	39	60·9	−1·2	58·8	+0·2	3	0·27	− 0·19	*6·0*	− *0·6*	*36*	*− 4*	*Southport.*
											0	45	58·6	0·0	56·7	+0·9	—	—	—	*2·0*	—	*12*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	68	6th	52	5th	63·4	53·7	58·2	− 0·4	113	0	•	•	•	•	•	•	3	0·31	− 0·18	5·2	− 1·2	31	− 7	Llandudno.
a Holyhead ..	68	6th	53	30, 2-6	62·3	53·1	57·4	+ 0·2	108	0	•	•	•	•	•	•	0	0·00	− 0·54	4·8	—	29	—	Aberdovey.
p Bettws-y-Coed ..	71	6th	48	4, 5	64·0	52·0	57·6	− 1·3	109	0	0	43	57·1	−0·1	54·0	+1·1	2	0·19	—	3·7	—	22	—	Bettws-y-Coed.

For notes see opposite page.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	69	6th	45	5th	63·7	50·0	56·4	− 0·7	101	0	0	39	56·4	−0·1	52·6	−0·1	3	0·11	—	4·6	—	28	—	Aberystwyth.
a Pembroke	70	6th	52	2nd	63·4	53·4	58·1	+ 0·9	113	0	*	*	*	*	*	*	3	0·14	− 0·38	5·1	—	31	—	Llangammarch
p Cardiff	70	6th	50	1, 5	64·6	52·0	57·9	− 2·0	111	0	0	45	60·3	+0·1	57·1	+0·3	4	0·32	− 0·33	3·0	− 4·3	18	−26	Pembroke.[Wells
																				4·2	—	*26*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	74	6th	51	5th	66·3	53·0	59·2	− 1·2	120	0	0	45	*	*	*	*	4	0·68	+ 0·08	*3·2*	—	*20*	—	*Clifton.*
a Shaftesbury	70	6th	47	30th	62·4	48·7	55·1	− 3·3	92	0	*	*	58·5	*	57·1	*	5	1·58	+ 1·02	*	*	*	*	Shaftesbury.
a Arlington	66	5th	48	30th	61·1	51·4	55·9	− 1·0	97	0	*	*	59·7	*	*	*	4	0·50	− 0·32	4·5	− 2·5	28	−15	Newquay.
a Cullompton	70	6th	48	30th	66·4	52·6	59·0	− 0·2	119	0	0	45	60·0	*	*	*	7	1·06	+ 0·48	1·6	− 4·7	10	−29	Cullompton.
a Portland	66	6th.	54	3, 4, 5	63·4	54·7	58·8	+ 0·1	118	0	*	*	*	*	*	*	3	0·18	—	*4·5*	—	*28*	—	*Weymouth.*
p Plymouth	70	6th	53	30, 2	65·2	54·9	59·7	− 0·1	124	0	0	47	61·6	−1·3	*	*	4	0·21	− 0·36	4·5	− 1·3	28	−14	Plymouth.
p Falmouth	65	5th	52	30th	62·3	54·7	58·2	− 0·8	113	0	*	*	*	*	*	*	4	0·89	+ 0·29	5·8	− 1·5	36	−10	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	67	6th	50	3rd	58·9	51·4	54·9	− 0·6	90	0	*	*	*	*	*	*	2	0·15	− 0·43	*	*	*	*	
a Blacksod Point ..	71	6th	50	4th	62·3	51·6	56·6	0·0	102	0	*	*	*	*	*	*	2	0·23	− 0·41	*	*	*	*	
p Markree Castle ..	69	6th	42	4, 5	62·7	48·1	54·9	− 0·9	90	0	0	36	58·5	*	54·7	*	2	0·40	− 0·32	4·7	− 0·1	28	0	Markree Castle.
a Birr Castle	72	5th	45	4, 5	65·3	48·4	56·3	− 1·3	100	0	*	*	*	*	*	*	2	0·13	− 0·47	*4·1*	*− 0·9*	*25*	*− 6*	*Birr Castle.*
b, East .. *p* Armagh	69	4th	43	6th	64·1	47·7	55·3	− 1·4	93	0	0	39	57·7	−1·4	55·0	−0·3	2	0·29	− 0·34	4·3	− 0·9	25	− 6	Armagh.
a Donaghadee	64	6th	49	6th	60·9	51·0	55·6	− 0·9	95	0	*	*	*	*	*	*	1	0·07	− 0·52	*	*	*	*	
10. IRELAND, S.											0	43	58·8	−0·6	55·9	+0·1	—	—	—	*	*	*	*	Trinity Coll.
											0	37	*	*	*	*	—	—	—	4·3	− 1·8	26	−11	Phœnix Park.
a. East .. *p* Dublin, City	66	6th	51	4th	63·3	52·7	57·6	− 2·1	109	0	0	49	*	*	*	*	2	0·24	− 0·26	*	*	*	*	Dublin City.
a Kilkenny	70	6th	48	6th	65·0	51·6	57·8	− 1·1	111	0	*	*	*	*	*	*	2	0·33	− 0·25	*	*	*	*	
a Waterford	71	6th	47	5th	65·9	50·6	57·7	− 1·0	110	0	*	*	*	*	*	*	1	0·03	− 0·67	*	*	*	*	
a Birr Castle	72	5th	45	4, 5	65·3	48·4	56·3	− 1·3	100	0	*	*	*	*	*	*	2	0·13	− 0·47	4·1	− 0·9	25	− 6	Birr Castle.
a Foynes	69	4, 5	50	4th	63·7	52·0	57·4	− 0·7	108	0	*	*	*	*	*	*	2	0·20	− 0·40	*	*	*	*	
b, West .. *a* Cahir	71	4, 6	44	6th	65·6	50·0	57·3	− 1·1	107	0	*	*	*	*	*	*	3	0·31	—	*	*	*	*	
a Killarney	73	4, 5	46	4th	66·1	51·3	58·2	+ 0·5	113	0	*	*	*	*	*	*	2	0·12	− 0·57	*	*	*	*	
a Valencia	70	4th	51	2, 5	62·4	52·7	57·2	− 0·4	106	0	*	*	*	*	*	*	3	0·26	− 0·55	3·3	− 2·3	20	−14	Valencia.
a Roche's Point	65	4th	50	5th	62·7	52·7	57·4	− 0·7	108	0	*	*	*	*	*	*	2	0·05	− 0·59	5·8	—	36	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	5th	52	30, 2, 3	61·9	53·6	57·5	− 2·2	109	0	*	*	*	*	*	*	5	0·32	− 0·15	4·4	− 3·3	28	−21	Scilly.
a Jersey, St. Aubins ..	70	6th	54	3, 4	65·3	55·6	60·1	− 0·6	127	0	*	*	*	*	*	*	6	0·80	+ 0·30	5·0	− 3·0	31	−19	St. Heliers.
a Guernsey (Villa Carey)	67	6th	54	30, 2, 3, 4	64·0	55·0	59·2	− 1·0	120	0	0	50	62·8	+0·8	60·2	+1·5	5	0·58	+ 0·09	4·6	− 3·6	29	−22	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·6 hrs. 22 °/₀; Ramsgate, 4·3 hrs. 26 °/₀; Rhyl, 4·1 hrs. 25 °/₀; Salcombe, 3·4 hrs. 21 °/₀; Tenby, 5·5 hrs. (−1·8) 34 °/₀ (− 11 °/₀); Torquay, 3·5 hrs. (−4·0) 22 °/₀ (−25 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, July 6th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	52	50	51·0	+0·2	SCOTLAND, W. ..	Lamlash	60	53	55·7	+1·2
	Kirkwall	61	58	58·6	+5·4		Ballantrae	57	52	54·5	+0·2
	Wick	52	51	51·8	−0·3	ENGLAND, N.W. ..	Port Erin	58	55	55·8	+1·9
SCOTLAND, E. ..	Cromarty	58	53	55·3	+0·8		Newquay	59	58	58·1	−0·9
	Pennan Bay	53	52	52·3	−1·5	ENGLAND, S.W. ..	Scilly	59	57	57·8	—
	Aberdeen, Cove Bay	52	51	51·7	−0·8		Plymouth‡	58	58	58·1	0·0
ENGLAND, N.E. ..	Burnmouth, Berwick	53	51	51·9	−0·1		Salcombe	60	55	56·4	+0·5
	Scarborough ..	54	52	53·0	−0·8	IRELAND, N.W. ..	Sheephaven	59	56	57·4	+0·3
ENGLAND, E. ..	Shipwash Lightship	63	60	61·5	+3·0		Teelin	59	56	57·6	−0·6
	Margate‡	63	62	62·2	+1·7	IRELAND, S.W. ..	Cleggan	58	56	57·1	+0·9
ENGLAND, S.E. ..	Eastbourne‡	64	62	62·4	+1·8		Seafield	65	56	61·5	+2·0
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-SEVENTH WEEK—June 30th to July 6th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	74	40	60·8	49·3	54·7	+ 0·2	89	+ 1	0	0	2	− 2	0·28	−0·50	3·7	−0·7	21	− 4
Eastern.																		
1. SCOTLAND, EAST ...	78	40	63·1	48·7	55·4	− 0·9	94	− 6	0	0	2	− 2	0·50	−0·13	4·0	−1·7	23	−10
2. ENGLAND, N.E.	73	44	60·2	50·1	54·8	− 3·8	90	− 26	0	0	4	+ 1	0·65	+0·19	2·4	−4·3	14	−26
3. ENGLAND, EAST ...	74	47	64·9	53·0	58·5	− 2·0	116	− 13	0	0	4	+ 1	0·83	+0·41	4·0	−3·4	24	−21
4. MIDLAND COUNTIES ...	73	44	63·4	50·9	56·7	− 3·2	103	− 23	0	0	4	+ 1	0·61	+0·14	2·0	−4·7	12	−28
5. ENGLAND, S.E.	73	45	65·1	52·6	58·4	− 2·6	115	− 18	0	0	3	+ 1	0·61	+0·21	3·0	−4·6	18	−28
Western.																		
6. SCOTLAND, WEST ...	73	43	64·5	49·9	56·7	− 0·4	103	− 2	0	0	2	− 2	0·11	−0·68	5·4	−0·5	32	− 3
7. ENGLAND, N.W.	71	41	63·3	51·3	56·9	− 1·8	104	− 13	0	0	2	− 1	0·24	−0·34	4·7	−1·7	28	−10
8. ENGLAND, S.W.	74	45	63·9	52·5	57·8	− 1·6	111	− 11	0	0	4	+ 1	0·57	+0·04	4·2	−2·8	26	−17
9. IRELAND, NORTH ...	72	42	62·4	49·7	55·6	− 1·8	95	− 13	0	0	2	− 2	0·21	−0·42	4·5	−0·3	27	− 2
10. IRELAND, SOUTH ...	73	44	64·5	51·3	57·4	− 1·4	108	− 10	0	0	2	− 2	0·18	−0·42	4·4	−1·1	27	− 6
11. ENGLISH CHANNEL ...	70	52	63·7	54·7	58·9	− 1·7	118	− 13	0	0	5	+ 2	0·57	+0·12	4·7	−3·8	29	−24

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 5 Weeks, June 2nd to July 6th, 1912.

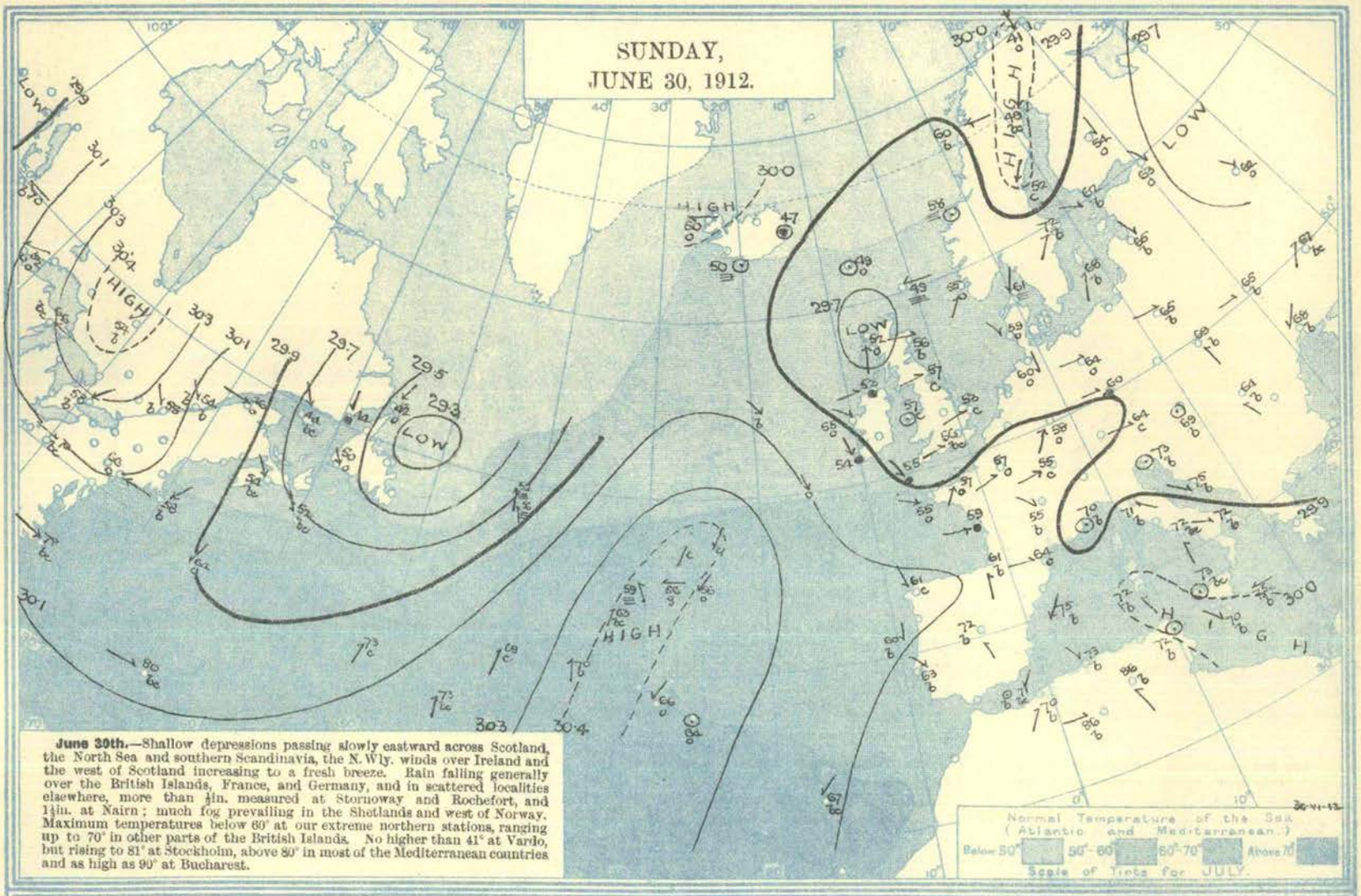
0. SCOTLAND, NORTH ...	74	38	*	*	*	*	368	− 26	0	− 2	21	+ 2	3·28	−0·10	3·1	−1·9	17	−11
Eastern.																		
1. SCOTLAND, EAST ...	78	32	*	*	*	*	399	− 44	0	− 1	24	+ 8	3·74	+1·07	2·6	−3·3	15	−20
2. ENGLAND, N.E	80	42	*	*	*	*	466	− 24	0	0	27	+13	5·20	+3·03	3·9	−2·5	23	−15
3. ENGLAND, EAST ...	80	40	*	*	*	*	572	+ 17	0	0	21	+ 7	3·21	+0·93	6·1	−0·9	37	− 5
4. MIDLAND COUNTIES ...	81	38	*	*	*	*	509	− 41	0	0	23	+ 9	4·44	+2·07	4·5	−1·8	27	−11
5. ENGLAND, S.E.	82	37	*	*	*	*	550	− 34	0	0	18	+ 5	3·77	+1·63	6·3	−0·8	39	− 5
Western.																		
6. SCOTLAND, WEST ...	73	37	*	*	*	*	456	− 26	0	0	24	+ 7	5·51	+2·06	4·3	−2·0	25	−12
7. ENGLAND, N.W.	76	38	*	*	*	*	482	− 39	0	0	24	+ 8	4·54	+1·88	4·6	−1·9	27	−12
8. ENGLAND, S.W.	77	35	*	*	*	*	500	− 48	0	0	24	+ 9	5·39	+2·77	5·3	−1·6	33	−10
9. IRELAND, NORTH ...	72	35	*	*	*	*	438	− 46	0	0	25	+ 6	4·80	+1·71	4·3	−1·1	25	− 7
10 IRELAND, SOUTH ...	73	33	*	*	*	*	481	− 55	0	0	26	+ 9	5·77	+2·83	4·7	−1·3	29	− 8
11. ENGLISH CHANNEL ...	80	45	*	*	*	*	556	− 23	0	0	24	+ 8	3·57	+1·46	7·0	−1·2	44	− 8

THE YEAR.—Aggregates, &c., for the Period of 27 Weeks, December 31st, 1911, to July 6th, 1912.

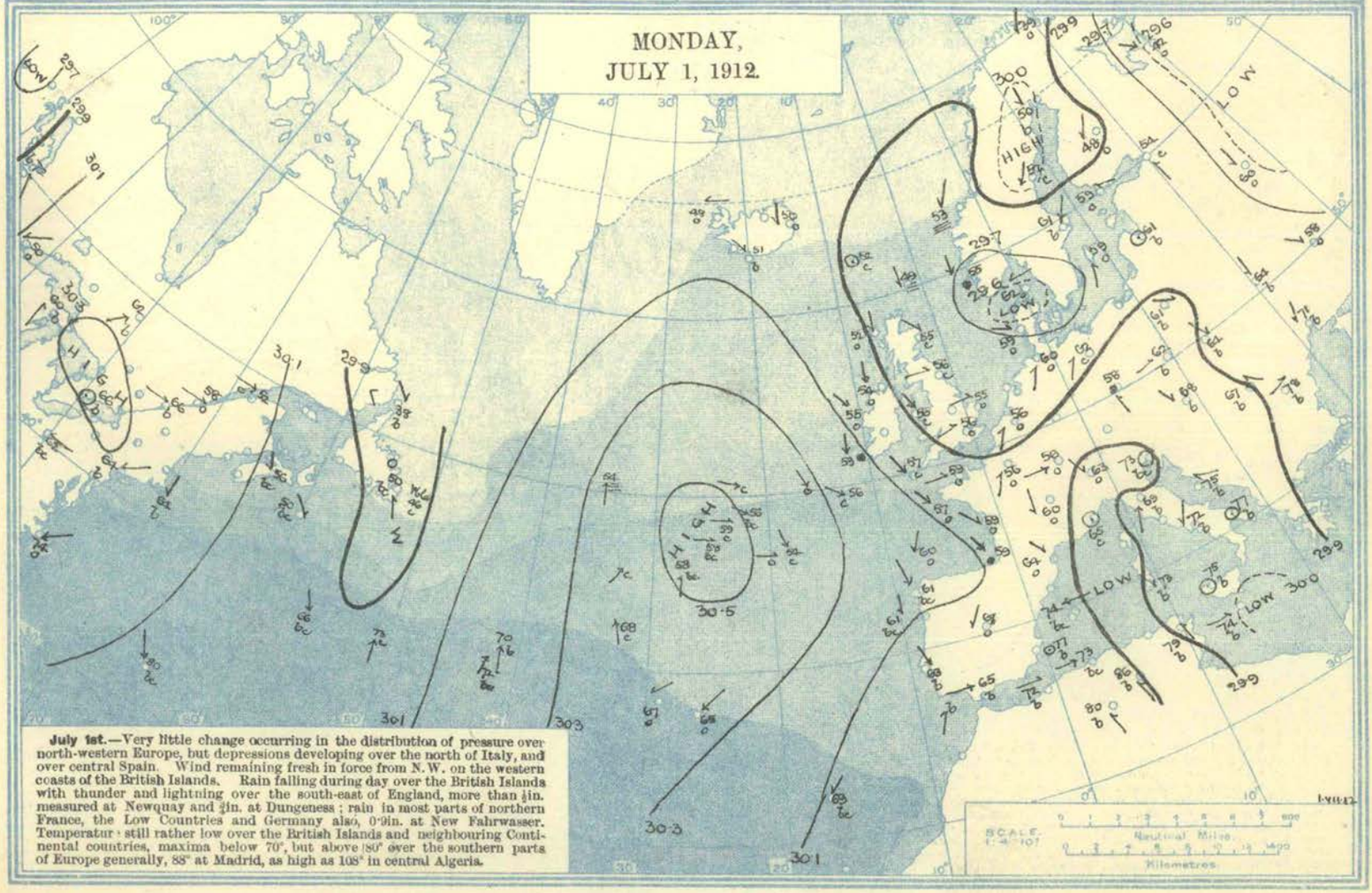
0. SCOTLAND, NORTH ...	74	7	*	*	*	*	856	+ 14	427	−130	125	+ 2	23·50	−0·72	3·3	−0·2	25	− 2
Eastern.																		
1. SCOTLAND, EAST ...	78	−5	*	*	*	*	1,005	+ 31	519	−101	114	+14	14·30	+0·37	3·4	−0·7	27	− 6
2. ENGLAND, N.E.	80	10	*	*	*	*	1,173	+131	373	−102	106	+15	14·86	+4·21	3·6	−0·8	28	− 6
3. ENGLAND, EAST ...	82	14	*	*	*	*	1,453	+207	274	−247	98	+ 9	11·43	+0·83	4·3	−0·3	34	− 3
4. MIDLAND COUNTIES ...	81	9	*	*	*	*	1,361	+ 92	373	−160	99	+11	16·42	+4·34	3·6	−0·6	28	− 5
5. ENGLAND, S.E.	82	13	*	*	*	*	1,471	+120	218	−163	92	+ 8	14·55	+2·80	4·5	−0·2	36	− 1
Western.																		
6. SCOTLAND, WEST ...	73	12	*	*	*	*	1,106	+ 32	329	− 96	114	+ 8	22·52	+1·25	3·7	−0·5	29	− 4
7. ENGLAND, N.W.	76	7	*	*	*	*	1,220	+ 75	298	− 88	105	+ 8	16·80	+1·85	3·9	−0·3	30	− 3
8. ENGLAND, S.W.	74	9	*	*	*	*	1,375	+ 62	189	−112	114	+19	21·67	+4·97	4·0	−0·7	31	− 5
9. IRELAND, NORTH ...	72	15	*	*	*	*	1,183	+ 39	237	−108	108	− 6	18·01	+0·96	3·5	−0·5	28	− 4
10. IRELAND, SOUTH ...	73	13	*	*	*	*	1,402	+ 47	167	− 92	127	+24	21·67	+3·21	3·5	−0·9	28	− 7
11. ENGLISH CHANNEL ...	80	27	*	*	*	*	1,753	+255	44	− 65	112	+ 9	17·07	+3·04	5·1	−0·5	40	− 4

NOTES ON TABLE IV.

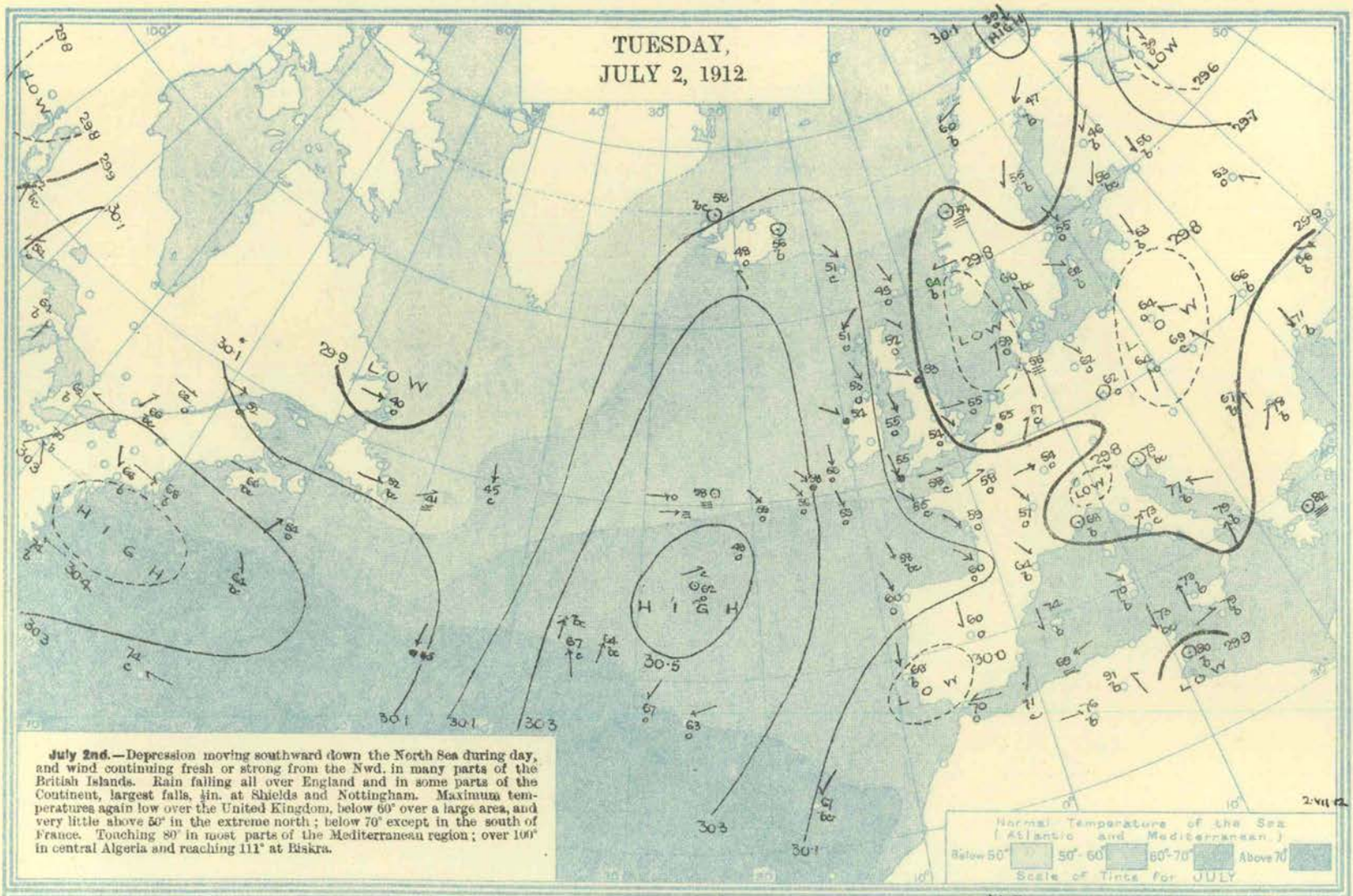
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6 the district averages for temperature are for 20 years only.



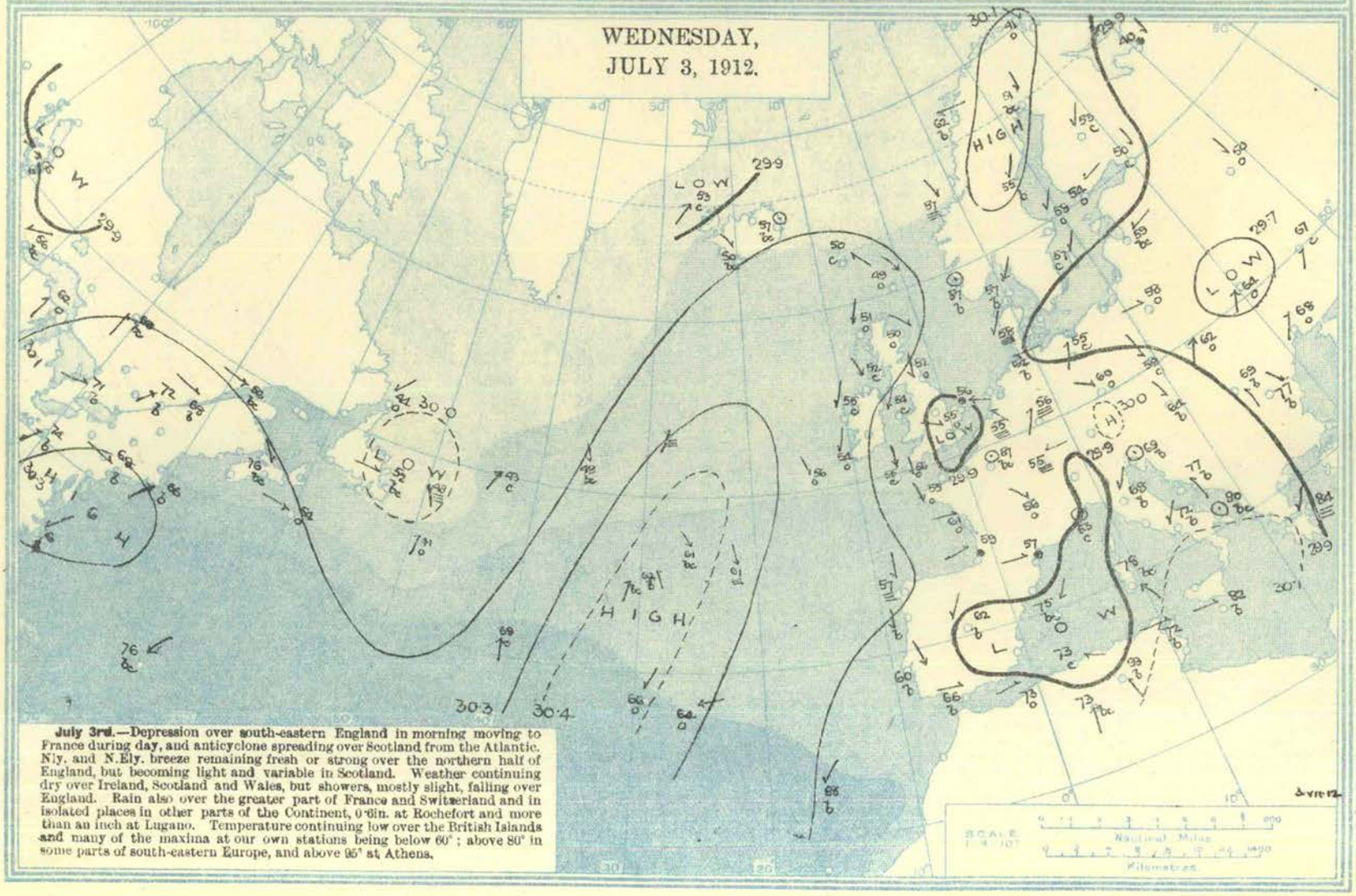
June 30th.—Shallow depressions passing slowly eastward across Scotland, the North Sea and southern Scandinavia, the N.Wly. winds over Ireland and the west of Scotland increasing to a fresh breeze. Rain falling generally over the British Islands, France, and Germany, and in scattered localities elsewhere, more than ¼in. measured at Stornoway and Rochefort, and 1¼in. at Nairn; much fog prevailing in the Shetlands and west of Norway. Maximum temperatures below 60° at our extreme northern stations, ranging up to 70° in other parts of the British Islands. No higher than 41° at Vardo, but rising to 81° at Stockholm, above 80° in most of the Mediterranean countries and as high as 90° at Bucharest.



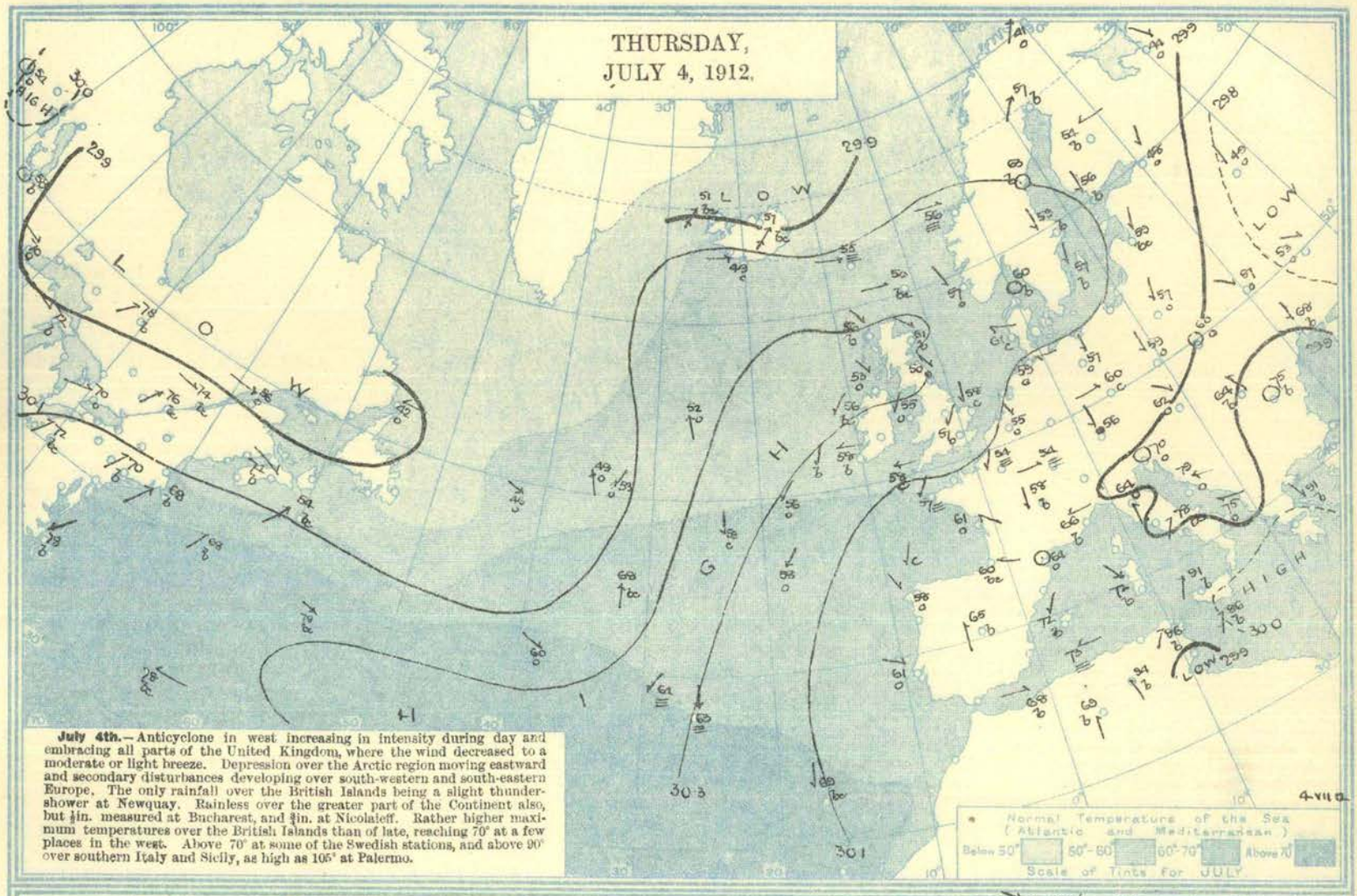
July 1st.—Very little change occurring in the distribution of pressure over north-western Europe, but depressions developing over the north of Italy, and over central Spain. Wind remaining fresh in force from N.W. on the western coasts of the British Islands. Rain falling during day over the British Islands with thunder and lightning over the south-east of England, more than ¼in. measured at Newquay and ¼in. at Dungeness; rain in most parts of northern France, the Low Countries and Germany also, 0·9in. at New Fahrwasser. Temperature still rather low over the British Islands and neighbouring Continental countries, maxima below 70°, but above 80° over the southern parts of Europe generally, 88° at Madrid, as high as 108° in central Algeria.



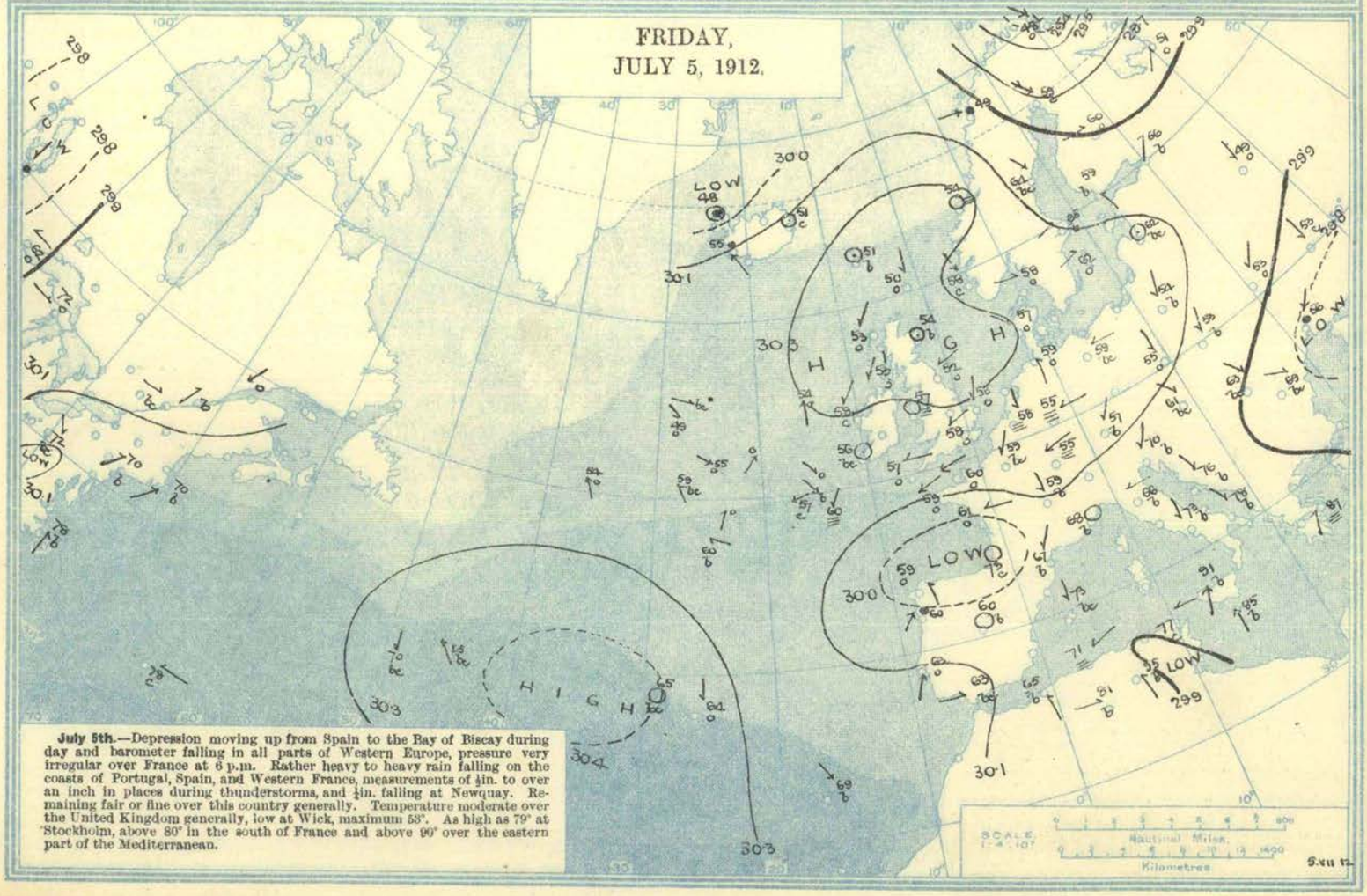
July 2nd.—Depression moving southward down the North Sea during day, and wind continuing fresh or strong from the Nwd. in many parts of the British Islands. Rain falling all over England and in some parts of the Continent, largest falls, ¼in. at Shields and Nottingham. Maximum temperatures again low over the United Kingdom, below 60° over a large area, and very little above 50° in the extreme north; below 70° except in the south of France. Touching 80° in most parts of the Mediterranean region; over 100° in central Algeria and reaching 111° at Biskra.



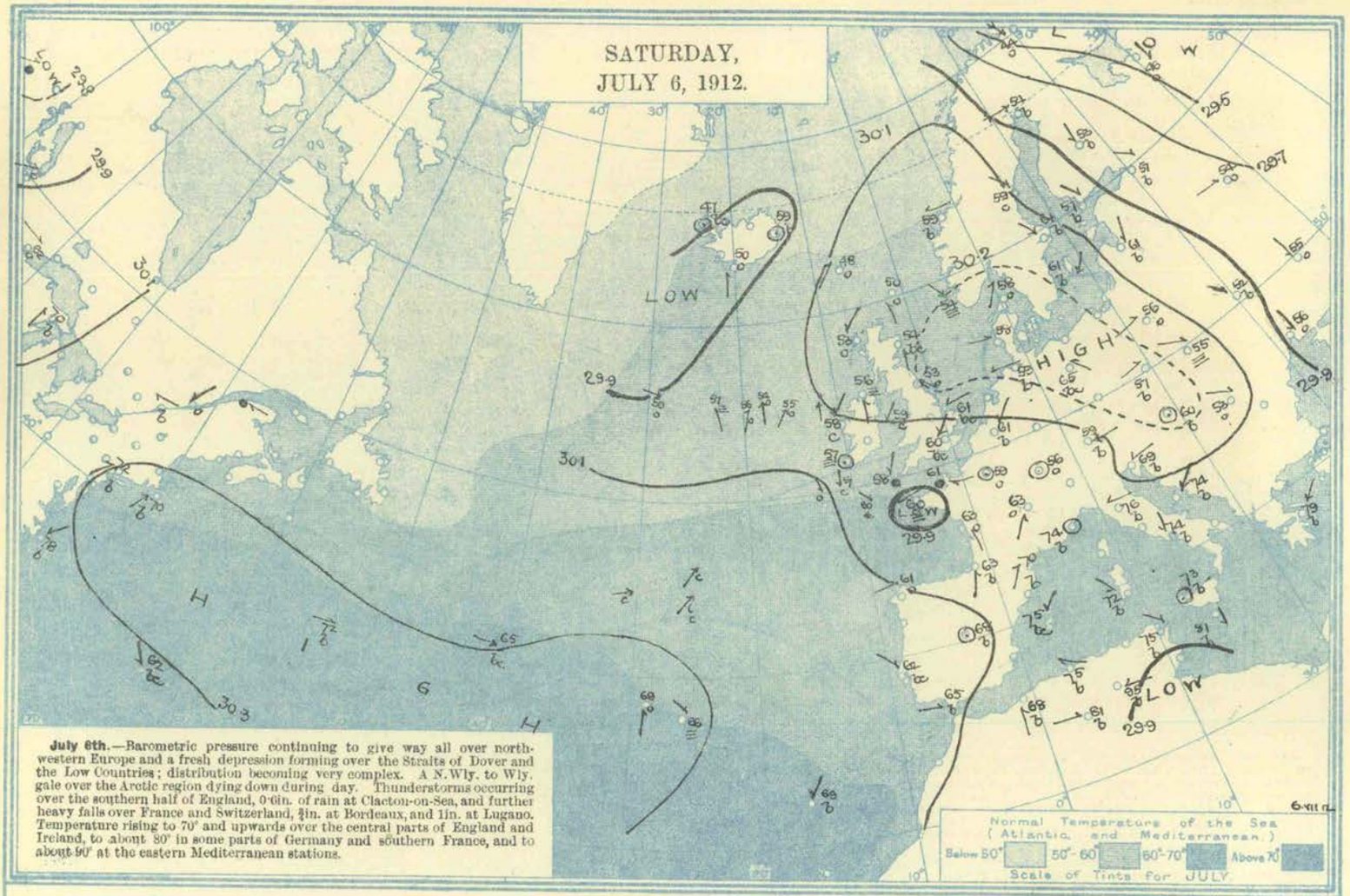
July 3rd.—Depression over south-eastern England in morning moving to France during day, and anticyclone spreading over Scotland from the Atlantic. Nly. and N.Ely. breeze remaining fresh or strong over the northern half of England, but becoming light and variable in Scotland. Weather continuing dry over Ireland, Scotland and Wales, but showers, mostly slight, falling over England. Rain also over the greater part of France and Switzerland and in isolated places in other parts of the Continent, 0·6in. at Rochefort and more than an inch at Lugano. Temperature continuing low over the British Islands and many of the maxima at our own stations being below 60°; above 80° in some parts of south-eastern Europe, and above 95° at Athens.



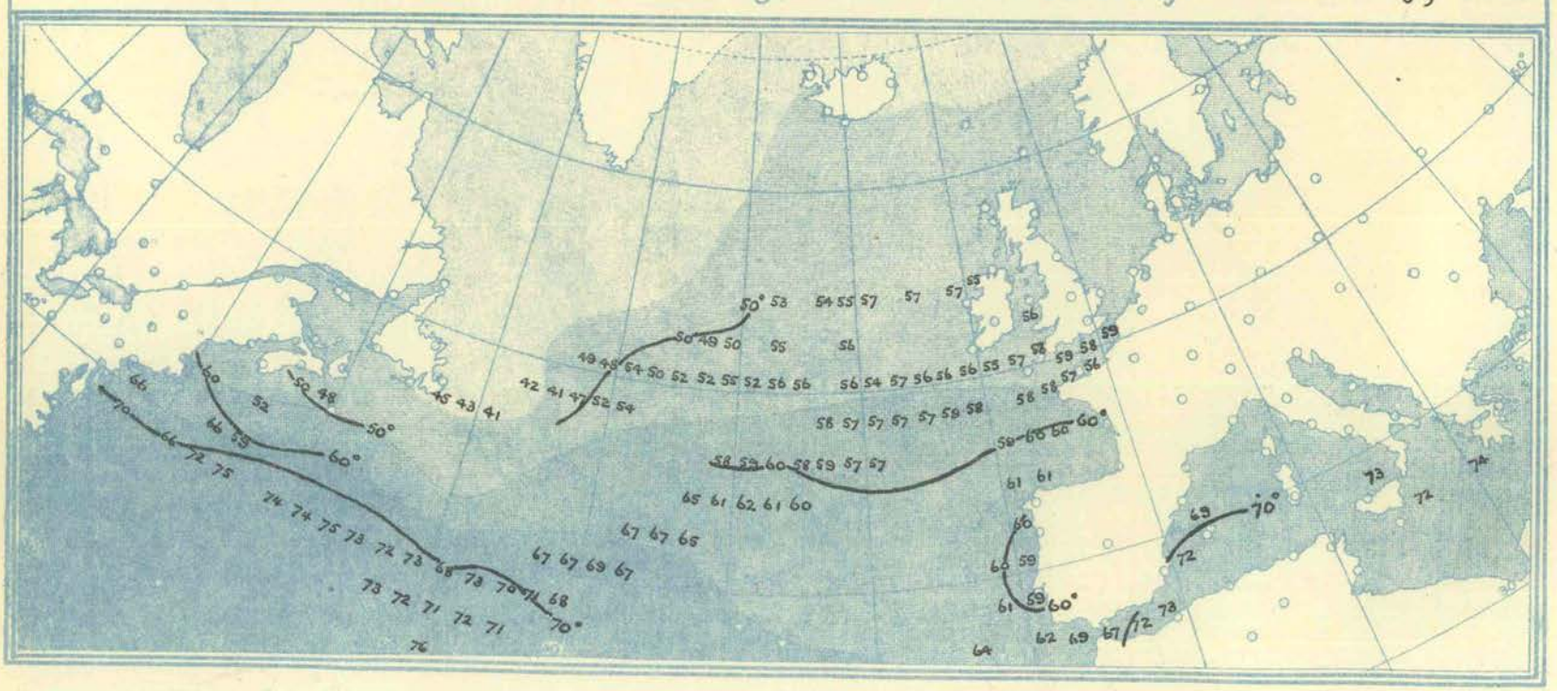
July 4th.—Anticyclone in west increasing in intensity during day and embracing all parts of the United Kingdom, where the wind decreased to a moderate or light breeze. Depression over the Arctic region moving eastward and secondary disturbances developing over south-western and south-eastern Europe. The only rainfall over the British Islands being a slight thundershower at Newquay. Rainless over the greater part of the Continent also, but $\frac{1}{10}$in. measured at Bucharest, and $\frac{2}{10}$in. at Nicolaieff. Rather higher maximum temperatures over the British Islands than of late, reaching 70° at a few places in the west. Above 70° at some of the Swedish stations, and above 90° over southern Italy and Sicily, as high as 105° at Palermo.



July 5th.—Depression moving up from Spain to the Bay of Biscay during day and barometer falling in all parts of Western Europe, pressure very irregular over France at 6 p.m. Rather heavy to heavy rain falling on the coasts of Portugal, Spain, and Western France, measurements of $\frac{1}{10}$in. to over an inch in places during thunderstorms, and $\frac{1}{10}$in. falling at Newquay. Remaining fair or fine over this country generally. Temperature moderate over the United Kingdom generally, low at Wick, maximum 53°. As high as 79° at Stockholm, above 80° in the south of France and above 90° over the eastern part of the Mediterranean.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 6TH July, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ↯ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 28. TWENTY-EIGHTH WEEK, SUNDAY, JULY 7TH, TO SATURDAY, JULY 13TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. Although the conditions were generally unsettled there were several days with little or no rain in the eastern and southern parts of the Kingdom, and there was an occasional fine interval in the west and north. Thunderstorms—severe in places—were experienced over a large portion of the country, but they were more general over the eastern half of Britain than elsewhere and occurred mostly on the 12th or 13th.

Temperature was above the normal over the Eastern section and also in England North-West and equal to it in Scotland West, below it elsewhere. The greatest divergence was +4° in England East. The highest of the maxima occurred on the 7th at several stations, but late in the week at the majority, and ranged from 91° in England East (at Tottenham on the 12th), and 88° in England South-East to 68° in Ireland South. At Greenwich observatory and Camden Square the thermometer (in Glaisher Screens) rose to 90° and 91° respectively on the 12th. The lowest of the minima, which were recorded in most localities on the 9th, varied from 36° in England South-East and South-West to 44° in England North-East, and to 52° in the English Channel. The lowest grass readings reported were 30° at Birmingham and 33° at Margate. At both 1 foot and 4 feet below the surface the temperature of the soil was above the average over the greater part of the Kingdom.

Mean Temperature of the Sea. Around the coast generally the water was colder than during the corresponding week of last year, but it differed little from the average. The values ranged from 64° at Margate and the Shipwash Lightship to 53° at Wick.

Rainfall exceeded the normal in Ireland, Scotland North and West and the English Channel, and very slightly so in England North-East. Elsewhere it was less, the fall in England East being only 0·1 in. At Waterford as much as 1·7 in. was collected on the 11th and at Bognor 1·2 in. on the 13th. At Seaham Harbour on the 12th a severe thunderstorm gave 1·04 in. of rain between 5.30 p.m. and 7.30 p.m.

Bright Sunshine was below the average except in England East. In England South-West the daily mean was only about 2½ hours, but in England East it was 7½ hours.

Barometer and Wind. The pressure distribution underwent considerable changes, and was generally cyclonic over these islands and their neighbourhood. The southern and eastern districts however, were occasionally under the influence of high pressures extending from the southward. The main wind current was Southerly to South-Westerly after Sunday, but towards the end of the week, when a large depression of a "V"-shaped character passed from west to east over the Kingdom, it became North-Westerly or Northerly. A fresh breeze was experienced at times on some exposed parts of the coast, but as a rule the force was light.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 111.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Deficient	Deficient	Moderate
	Rainfall ...	Moderate	Moderate	Moderate	Light	Light	Light	Heavy	Moderate	Moderate	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Scanty	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Very scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 6 weeks from June 2nd, 1912.	Warmth ...	0 * 2	0 * 2	2 * 2	2 * 1	2 * 2	1 * 2	0 * 1	1 * 2	0 * 3	0 * 3	0 * 4	1 * 2
	Rainfall ...	1 * 1	2 * 0	5 * 0	3 * 1	3 * 1	4 * 2	5 * 1	4 * 1	3 * 0	3 * 1	4 * 1	2 * 1
	Sunshine ...	0 * 3	0 * 6	0 * 4	2 * 2	0 * 3	0 * 2	0 * 2	0 * 4	0 * 4	0 * 3	0 * 5	0 * 3

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(25443—24.) Wt. 173—814. 450. 7/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from Average.	Mean.	Difference from Average.								
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*61*	*11th*	*47*	*9th*	*58·1*	*49·1*	*53·3*	—	*79*	*0*			54·3				*5*	*0·55*	—	*3·0*	—	*16*	—	*Baltasound.*
a Islands .. *a* Lerwick	59	12th	49	7th	57·0	50·7	53·6	+ 1·9	81	0							5	0·71	—	3·7	- 0·9	21	- 5	Deerness.
a Stornoway	62	7th	48	12, 13	59·0	50·6	54·5	+ 0·8	88	0							6	0·90	+ 0·23	5·1	0·0	29	0	Stornoway.
a Castlebay, Barra Isd.	*59*	*13th*	*50*	*13th*	*57·0*	*51·9*	*54·3*	- *2·1*	*86*	*0*							*6*	*0·98*	—	*5·2*	—	*30*	—	*Castlebay.*
a Wick	63	9, 11	46	11th	60·4	49·9	54·8	+ 0·7	90	0							4	0·45	- 0·12					
b Main- *p* Strathpeffer ..	72	7th	43	11th	64·9	48·7	56·2	+ 0·5	99	0							5	0·26	- 0·36	3·1	- 1·3	18	- 8	Strathpeffer.
land. *p* Glencarron ..	67	7th	49	8, 9, 11	60·4	49·6	54·6	+ 1·1	88	0							6	1·56	+ 0·37					
p Fort Augustus..	72	7th	49	9th	64·1	51·1	57·2	+ 1·7	106	0							5	0·70	+ 0·07	3·2	- 0·4	19	- 2	Fort Augustus.
p Fort William ..	69	7th	49	10, 11	63·7	50·9	56·9	+ 0·7	104	0							5	1·94	+ 0·87					
1. SCOTLAND, E.																								
p Gordon Castle.. S	73	7, 12	47	7, 9	68·7	51·0	59·2	+ 2·7	120	0	0	34	58·5	+0·6	53·6	0·0	—	—	—	4·5	—	26	—	Crathes S.
a Nairn	71	12th	45	11th	66·4	48·7	56·9	+ 0·7	104	0							5	0·42	- 0·28	*4·6*	—	*27*	—	*Gordon Castle.*
a Aberdeen ..	66	12th	44	9th	64·4	52·0	57·8	+ 1·7	111	0							5	0·33	- 0·23	3·4	—	20	—	Nairn.
a Balmoral ..	74	7th	37	11th	70·3	46·4	57·5	+ 3·5	109	0	0	34			52·2	- 0·1	4	0·40	- 0·20	5·1	- 0·4	30	- 2	Aberdeen.
p Crieff	73	7th	45	11th	67·0	50·6	58·2	+ 0·7	113	0							4	0·51	- 0·09					Balmoral.
a Leith	74	12th	51	7, 9	67·6	53·4	60·0	+ 2·1	126	0							6	1·08	+ 0·40	2·0	—	12	—	Balruddery.
p West Linton .. S	71	7, 12	42	9th	64·6	48·6	56·0	+ 0·7	98	0	0	38					4	0·30	- 0·27					
p Marchmont .. S	70	7th	45	9th	66·6	50·3	57·9	+ 1·7	111	0	0	42	59·4	+1·4			4	0·75	—	*4·5*	—	27	—	*West Linton.*
2. ENGLAND, N.E.																	3	0·23	- 0·47	6·2	+ 0·5	37	+ 4	Marchmont.
a Alnwick Castle ..	72	10th	46	9th	68·3	51·7	59·4	+ 2·4	122	0	0	45	58·9	+0·8	54·1	- 0·1	5	0·64	+ 0·04	5·8	—	34	—	Cockle Park.
a Shields	72	12th	49	7, 8, 9	67·1	52·3	59·2	+ 2·0	120	0							2	0·35	- 0·18					*Newcastle.*
p Durham	76	12th	45	9th	69·0	52·6	60·2	+ 1·9	127	0	0						2	0·38	- 0·25	3·8	- 1·7	23	-10	Durham.
a, North .. *p* Rounton	79	12th	45	9th	69·9	52·7	60·7	+ 3·4	131	0	0	37	60·0				2	0·53	- 0·03					Rounton.
a West Witton	*75*	*12th*	*49*	*9th*	*70·1*	*54·4*	*61·7*		*138*	*0*	0	47	60·5		53·6		*4*	*0·40*	—					*West Witton.*
p Scarborough	73	11th	48	7th	68·1	54·9	61·0	+ 2·5	133	0					57·3†		2	0·87	+ 0·35	6·6	—	40	—	Scarborough.
p York	83	12th	47	9th	72·9	55·1	63·4	+ 3·8	150	0			59·7	+1·3	56·1	+1·4	2	0·66	+ 0·11	—	—	—	—	York.
a Spurn Head	73	11th	51	9th	67·7	55·4	61·1	+ 2·2	134	0	0	39	60·3	+1·2	55·0	+1·2	2	0·10	- 0·27	*4·3*	—	*26*	—	*Hull.*
b, South .. *a* Lincoln	86	12th	47	9th	74·3	55·4	64·2	+ 3·7	155	0			61·1	+1·6	55·8	+0·7	4	0·48	- 0·02					Lincoln.
a Fulbeck	83	12th	44	9th	74·6	53·9	63·5	+ 3·3	151	0	0	43	62·3	-1·0	55·6	-0·9	2	0·45	- 0·05	6·6	—	40	—	Rauceby.
																				7·1	—	43	—	Skegness.
											0	51	65·1	+3·1	59·2	+1·6	—	—	—	*8·7*	—	*53*	—	*Lowestoft.*
p Cromer	85	12th	52	9th	72·0	56·0	63·4	+ 3·9	150	0							2	0·15	—	7·8	—	48	—	Cromer.
p Hillington																	—	—	—					Hillington.
a, North .. *a* Yarmouth	79	13th	56	8, 9	70·0	59·1	64·2	+ 4·7	155	0			65·9	+2·1	59·7	-0·1	2	0·05	- 0·48	8·7	—	53	—	Yarmouth.
a Norwich	87	12th	50	9th	75·3	57·4	65·7	+ 5·8	166	0	0	46	64·7				2	0·13	—	*7·0*	—	*43*	—	*Norwich.*
p Geldeston	84	12th	53	9th	73·6	57·6	65·0	+ 5·3	161	0							2	0·16	- 0·33	7·9	+ 1·0	49	+ 6	Geldeston.
p Cambridge	87	12th	44	9th	75·6	55·1	64·6	+ 3·4	158	0	0	41	64·6	+2·8	59·2	+1·2	2	0·12	- 0·39	6·8	0·0	42	- 0	Cambridge.
a Felixstowe	*82*	*13th*	*50*	*9th*	*72·0*	*58·7*	*64·9*	+ *4·0*	*160*	*0*							*2*	*0·07*	—	*8·2*	—	*51*	—	*Felixstowe.*
a Clacton-on-Sea ..	81	13th	49	9th	71·4	57·7	64·1	+ 3·4	155	0	0	45	62·7	+2·7	58·4	+0·1	2	0·12	—	8·4	—	52	—	Clacton.
b, South .. *a* Rothamsted ..	85	12th	42	9th	75·0	54·0	63·8	+ 4·0	153	0							2	0·03	- 0·51	6·4	- 0·4	40	- 3	Rothamsted.
a Shoeburyness	*83*	*12th*	*55*	*9th*	*75·1*	*59·0*	*66·5*	+ *3·9*	*172*	*0*	0	51	66·6	+3·0			*2*	*0·35*	- *0·05*	*7·7*	—	*48*	—	*Southend.*
p Tottenham	91	12th	50	9th	77·3	57·4	66·7	+ 5·1	173	0	0	45			59·5	+0·4	0	0·00	—	6·5	—	40	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	77	12th	47	9th	70·0	53·6	61·2	+ 3·8	134	0	0	43	60·3	-0·2	54·0	0·0	—	—	—	*5·4*	—	*33*	—	*Huddersfield.*
a Bawtry	82	12th	45	9th	73·6	55·0	63·7	+ 3·9	152	0	0	41	57·4	+1·3	54·6	+0·4	1	0·44	- 0·10	5·0	—	30	—	Harrogate.
p Buxton	*76*	*12th*	*41*	*9th*	*68·0*	*53·3*	*60·1*	+ *3·3*	*127*	*0*	0	38	58·6		56·3		2	0·25	- 0·25	5·1	- 0·3	31	- 2	Worksop.
a East .. *a* Nottingham	84	12th	45	9th	73·9	54·1	63·3	+ 2·9	149	0	0	37	62·6	+2·7	57·2	+1·1	*4*	*0·65*	- *0·17*	*5·2*	—	*32*	—	*Buxton.*
p Birmingham, Edgbn.	80	12th	46	9th	70·6	54·7	62·1	+ 2·7	141	0	1	30	56·3	+1·0	51·9	+0·5	3	0·37	- 0·32	5·7	- 0·9	35	- 5	Nottingham.
a Raunds	87	12th	45	9th	76·0	55·4	65·0	+ 4·3	161	0	0	40	62·1		56·3		2	0·10	- 0·40	5·0	—	31	—	Birmingham.
a Oxford	85	12th	45	9th	73·4	54·6	63·4	+ 2·6	150	0	0	—					3	0·17	—					Raunds.
											0	38	59·2	+1·4	53·9	+0·6	3	0·23	- 0·32	5·7	- 0·9	35	- 5	Oxford.
a Cheadle	73	12th	39	10th	68·9	50·2	58·9	+ 1·2	118	0	0	36					—	—	—	5·8	—	35	—	Sheffield.
p Shrewsbury ..	75	7th	42	9th	69·7	54·1	61·4	+ 2·2	136	0	0	40					4	0·24	- 0·37					Cheadle.
b, West .. *a* Hereford ..	75	7, 12	41	9, 10	70·0	51·9	60·3	+ 0·2	128	0	0	37					1	0·05	—					Shrewsbury.
a Cirencester ..	78	12th	40	9th	70·4	52·0	60·6	+ 1·5	130	0	0	40	60·1		55·7		2	0·15	- 0·35					Hereford.
a Bath	79	12th	41	9th	70·9	53·6	61·7	+ 1·3	138	0							4	0·09	- 0·48	5·6	- 0·8	35	- 5	Cirencester.
5. ENGLAND, S.E.																	3	0·07	- 0·50	4·4	—	27	—	Bath.
p Kew	87	12th	49	9th	75·7	57·4	65·9	+ 4·6	167	0	0	48	66·5	+6·3	59·2	+1·3	—	—	—					Canterbury.
a Marlborough ..	80	12th	36	9th	70·6	52·0	60·7	+ 1·4	131	0	0	38	63·3	+2·1	57·3	+0·7	4	0·23	- 0·29	6·2	- 0·5	39	- 3	Kew.
a Margate	88	12th	55	8th	74·7	59·0	66·3	+ 5·1	170	0	0	33					3	0·11	- 0·46	3·7	- 3·4	23	-15	Marlborough.
a Wisley, Surrey ..	87	12th	49	9th	76·0	55·3	64·9	+ 2·8	160	0	0	40	64·5	+2·8	58·6	+0·6	3	0·11	- 0·33	6·5	+ 0·1	40	+ 1	Margate.
a Swarraton	81	12th	47	9th	71·9	53·4	62·0	+ 2·6	140	0	0	47	65·8	+2·3	59·4	+0·8	2	0·05	—	5·3	—	33	—	Wisley
a Tunbridge Wells ..	87	12th	52	8th	75·7	55·4	64·8	+ 4·4	160	0	0	49	64·4	+1·5			3	0·09	- 0·44	7·2	—	45	—	Worthing.
a Dungeness	81	13th	55	8th	70·6	58·1	63·9	+ 3·4	153	0							1	0·16	- 0·34	7·8	+ 1·0	49	+ 6	Tunbridge Wells.
p Hastings.. ..	83	12th	54	8th	73·4	58·1	65·2	+ 4·8	162	0	0	52	66·4		60·0		3	0·66	+ 0·28	8·9	—	56	—	Littlestone.
p Southampton	76	12th	51	9th	70·7	56·1	62·9	+ 0·7	146	0	0	49					3	0·12	- 0·36	*9·1*	+ *1·3*	*57*	+ *8*	*Hastings.*
a Ventnor	73	12th	55	8, 9	69·9	57·3	63·2	+ 1·8	148	0	0	46	65·0	+1·0	59·9	+0·3	4	0·25	- 0·27	4·6	- 2·6	29	-16	Southampton.
																	3	0·27	- 0·21	5·0	- 1·9	31	-12	Ventnor.
																	—	—	—	*5·4*	—	*34*	—	*Portsmouth.*
													62·4		59·4		—	—	—	8·5	+ 0·8	53	+ 5	Eastbourne.
													62·2		60·2		—	—	—	*4·9*	—	*31*	—	*Bournemouth.*
LONDON.												50			60·7		—	—	—	7·7	—	*48*	—	*Brighton.*
a Westminster	*87*	*12th*	*50*	*9th*	*76·1*	*58·1*	*66·5*	+ *4·7*	*172*	*0*	0	45					*3*	*0·10*	- *0·40*	*6·4*	+ *0·6*	*40*	+ *4*	*Westminster.*
a Greenwich	*90*	*12th*	*50*	*9th*	*80·0*	*56·1*	*67·2*	+ *4·5*	*176*	*0*	0	38					*3*	*0·20*	- *0·32*	*7·5*	+ *0·1*	*47*	+ *1*	*Greenwich.*
a Hampstead	*88*	*12th*	*48*	*9th*	*74·9*	*55·4*	*64·5*	—	*158*	*0*	0	35					*2*	*0·03*	—	*6·7*	—	*42*	—	*Hampstead.*
a Camden Square ..	*91*	*12th*	*47*	*9th*	*79·1*	*56·6*	*67·1*	—	*176*	*0*	0	44					*2*	*0·05*	—	*5·8*	—	*36*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	66	7th	45	11th	61·0	49·6	54·9	- 2·5	90	0							5	1·56	+ 0·69					
p Glasgow	69	7th	49	9th	64·7	51·9	57·9	+ 0·7	111	0	0	42					5	0·82	+ 0·13	4·6	- 0·3	27	- 2	Glasgow.
p Rothesay ..	71	7th	46	11th	64·9	50·6	57·3	- 0·1	107	0					55·2	+0·5	7	1·46	+ 0·59					
a Kilmarnock ..	70	7, 13	46	9th	66·0	50·9	57·4	- 0·1	108	0							4	0·94	—	*5·5*	—	*33*	—	*Kilmarnock.*
a Colmonell ..	70	7th	44	9th	64·4	51·0	57·2	+ 0·1	106	0	0	41					6	0·88	+ 0·19					
p Dumfries ..	71	7, 12, 13	48	9th	66·7	52·4	59·1	+ 0·6	120	0	0	43	62·6		57·9		5	1·26	+ 0·56	*5·9*	—	*35*	—	*Dumfries.*
p Cally, Gatehouse S	72	13th	43	8th	65·4	51·3	57·9	+ 0·5	111	0							3	0·71	- 0·09					
b I. OF MAN.																								
p Douglas	65	7th	48	9th	61·0	51·4	55·9	- 0·8	97	0	0	45					5	0·76	+ 0·09	6·3	- 0·3	38	- 2	Douglas.
											0	39	59·8	+1·1	53·7	-0·2	—	—	—	*5·6*	—	*34*	—	*Burnley.*
											0	43					—	—	—	5·5	—	34	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	75	12th	50	7, 9	68·0	53·1	60·0	+ 3·4	126	0	0	44	62·1		54·8		5	0·89	+ 0·11	6·5	—	39	—	Aspatria.
p Newton Rigg ..	73	7, 12	43	7th	68·1	52·3	59·7	+ 3·2	124	0	0	37	61·0	+1·6	54·6	+0·2	4	0·45	- 0·19	5·6	- 0·4	34	- 2	Newton Rigg.
p Stonyhurst	75	12th	49	9th	69·0	55·7	61·9	+ 3·5	139	0	0	43					3	0·27	- 0·56	5·1	- 0·9	31	- 6	Stonyhurst.
p Blackpool	73	12th	47	7th	67·3	55·7	61·1	+ 2·4	134	0	0	36	59·7		54·8		4	0·52	- 0·08	6·5	+ 0·3	39	+ 2	Blackpool.
p Manchester (Whit. Pk.)	*79*	*12th*	*47*	*9th*	*71·7*	*56·4*	*63·5*	—	*151*	*0*	0	41					*1*	*0·17*	—	*4·9*	—	*30*	—	*Whit Park.*
a Liverpool (Bidston) ..	72	10, 12	51	9th	68·0	55·4	61·3	+ 1·4	135	0							6	0·23	- 0·35	*5·7*	—	*35*	—	*Liverpool.*
a Hawarden Bridge ..	73	10th	48	9th	69·1	55·1	61·6	+ 2·0	137	0	0	40	63·9	+0·7	59·5	0·0	2	0·08	- 0·39	*5·7*	- *0·8*	*35*	- *5*	*Southport.*
											0	45	61·7	+2·3	57·1	+0·7	—	—	—	*4·8*	—	*29*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	70	7th	52	9th	65·9	54·6	59·9	+ 0·6	125	0							4	0·27	- 0·23	5·2	- 1·0	32	- 6	Llandudno.
a Holyhead	64	7, 12	51	9, 10	62·3	52 9	57·3	- 0·4	107	0							5	1·65	+ 1·10	3·7	—	23	—	Aberdovey.
p Bettws-y-Coed ..	71	9, 12, 13	44	13th	67·6	52·1	59·3	+ 0·4	121	0	0	47	59·1	+1·6	54·7	+1·3	3	0·43	—	3·3	—	20	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.*	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·7	—	23	—	Aberystwyth.
a Llangammarch Wells	71	7, 13	36	9th	68·0	51·1	59·0	+ 1·3	119	0	0	34	57·4	+0·3	53·0	+0·3	6	0·55	—	3·4	—	21	—	Llangammarch
a Pembroke	67	8th	53	9th	61·4	54·7	57·8	+ 0·1	111	0	*	*	*	*	*	*	5	0·65	+ 0·11	2·1	- 4·8	13	-30	Pembroke.[Wells
p Cardiff	73	12th	43	9th	66·9	53·4	59·7	- 0·8	124	0	0	36	62·1	+1·6	57·6	+0·1	5	0·19	- 0·49	*3·4*	—	*21*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	79	12th	47	9th	70·0	55·1	62·0	+ 0·8	140	0	0	43	*	*	*	*	2	0·17	- 0·45	*4·6*	—	*29*	—	*Clifton.*
a Shaftesbury	75	12th	45	9th	67·6	52·6	59·6	+ 0·3	123	0	*	*	60·4	*	57·4	*	4	0·12	- 0·45	*	*	*	*	Shaftesbury.
a Arlington	67	11, 13	41	9th	63·9	52·4	57·8	+ 0·3	111	0	*	*	60·7	*	*	*	6	0·69	- 0·17	2·4	- 4·5	15	-28	Newquay.
a Cullompton	74	12th	39	9th	68·7	53·3	60·5	+ 0·7	130	0	0	39	61·1	*	*	*	4	0·57	- 0·03	2·3	- 3·9	14	-24	Cullompton.
a Portland	67	12th	52	9th	64·1	56·7	60·1	+ 0·6	127	0	*	*	*	*	*	*	3	0·05	—	*3·7*	—	*23*	—	*Weymouth.*
p Plymouth	70	7th	45	9th	64·1	55·0	59·2	- 1·3	120	0	0	37	62·2	-1·8	*	*	7	0·65	+ 0·04	1·8	- 5·0	11	-32	Plymouth.
p Falmouth	65	11th	49	9th	62·9	55·1	58·7	- 0·9	117	0	*	*	*	*	*	*	6	0·94	+ 0·32	2·8	- 4·5	18	-29	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	64	7th	48	11th	60·1	50·4	54·9	- 1·0	90	0	*	*	*	*	*	*	4	0·65	+ 0·04	*	*	*	*	* *
a Blacksod Point ..	60	7, 10, 13	49	13th	59·4	51·1	55·0	- 1·9	91	0	*	*	*	*	*	*	5	1·01	+ 0·35	*	*	*	*	* *
p Markree Castle ..	64	11, 13	41	11, 13	61·7	46·1	53·4	- 3·0	80	0	0	34	59·2	*	55·0	*	6	1·03	+ 0·29	4·7	+ 0·3	28	+ 2	Markree Castle.
a Birr Castle	66	11th	44	13th	63·1	47·0	54·5	- 3·4	88	0	*	*	*	*	*	*	5	0·66	+ 0·03	*4·0*	- *0·6*	*24*	- *4*	*Birr Castle.*
b, East .. { *p* Armagh	67	13th	46	13th	63·6	49·0	55·8	- 1·3	97	0	0	41	58·9	-1·9	55·6	-0·5	5	0·77	+ 0·11	4·2	- 0·7	25	- 4	Armagh.
a Donaghadee	65	7th	48	9th	62·0	50·9	56·1	- 0·9	99	0	*	*	*	*	*	*	3	1·08	+ 0·46	*	*	*	*	* *
											0	41	60·3	-0·4	56·6	0·0	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	37	*	*	*	*	—	—	—	4·2	- 1·6	26	-10	Phœnix Park.
a, East .. { *p* Dublin, City	68	10th	50	9th	64·6	53·0	58·4	- 1·8	115	0	0	47	*	*	*	*	5	0·48	- 0·06	*	*	*	*	Dublin City.
a Kilkenny	65	7, 11, 13	43	9th	63·4	49·3	55·9	- 3·1	97	0	*	*	*	*	*	*	6	1·26	+ 0·66	*	*	*	*	* *
a Waterford	66	7th	42	9th	62·9	49·3	55·6	- 3·7	95	0	*	*	*	*	*	*	5	1·93	+ 1·20	*	*	*	*	* *
b, West .. { *a* Birr Castle	66	11th	44	13th	63·1	47·0	54·5	- 3·4	88	0	*	*	*	*	*	*	5	0·66	+ 0·03	4·0	- 0·6	24	- 4	Birr Castle.
a Foynes	67	9th	47	8, 13	63·1	49·4	55·8	- 2·7	97	0	*	*	*	*	*	*	4	0·57	- 0·07	*	*	*	*	* *
a Cahir	67	13th	42	9th	64·7	48·0	55·8	- 3·1	97	0	*	*	*	*	*	*	5	0·60	—	*	*	*	*	* *
a Killarney	68	9, 11, 13	45	13th	64·6	49·8	56·7	- 1·4	103	0	*	*	*	*	*	*	4	0·52	- 0·21	*	*	*	*	* *
a Valencia	63	9, 11	48	11th	60·6	50·9	55·4	- 2·5	94	0	*	*	*	*	*	*	4	0·51	- 0·32	5·9	+ 0·7	37	+ 4	Valencia.
a Roche's Point ..	66	13th	48	9, 11	61·6	50·7	55·8	- 2·8	97	0	*	*	*	*	*	*	5	0·63	- 0·01	2·8	—	18	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	7th	52	9th	62·0	54·9	58·2	- 2·0	113	0	*	*	*	*	*	*	5	0·84	+ 0·33	3·0	- 4·4	19	-28	Scilly.
a Jersey, St. Aubins ..	74	12th	54	9th	68·3	56·4	61·9	+ 0·4	139	0	*	*	*	*	*	*	2	0·64	+ 0·14	6·2	- 1·8	40	-12	St. Heliers.
a Guernsey (Villa Carey)	74	12th	54	10th	67·6	56·6	61·7	+ 1·0	138	0	0	42	64·6	+2·0	60·7	+1·4	3	0·90	+ 0·41	5·1	- 3·1	32	-20	Guernsey.*

Additional Sunshine Means:—*Bognor, 6·9 hrs. 43 °/₀; Ramsgate, 8·4 hrs. 53 °/₀; Rhyl, 5·6 hrs. 34 °/₀; Salcombe, 2·3 hrs. 14 °/₀; Tenby, 2·6 hrs. (- 4·4) 16 °/₀ (- 28 °/₀); Torquay, 2·1 hrs. (- 5·3) 13 °/₀ (- 33 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, July 13th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	—			°	°	°	
SCOTLAND, N. ..	Lerwick					SCOTLAND, W. ..	Lamlash	60	52	55·3	-0·4
	Kirkwall	?61	?58	?59·2	+5·3		Ballantrae	59	54	56·6	+1·6
	Wick	53	52	52·7	+0·1	ENGLAND, N.W. ..	Port Erin	58	55	56·1	+1·5
	Cromarty	59	56	57·2	+2·0		Newquay	59	58	58·1	-1·7
SCOTLAND, E. ..	Pennan Bay	57	54	55·0	-0·2	ENGLAND, S.W. ..	Scilly	59	57	57·8	—
	Aberdeen, Cove Bay	54	52	52·8	-0·6		Plymouth‡	59	58	58·7	-0·3
	Burnmouth, Berwick	54	53	53·2	+0·2		Salcombe	60	56	57·6	+0·7
ENGLAND, N.E. ..	Scarborough	56	52	54·3	-0·3	IRELAND, N.W. ..	Sheephaven	60	57	58·2	+0·1
	Shipwash Lightship	67	61	63·5	+4·2		Teelin	59	56	57·1	-2·4
ENGLAND, E. ..	Margate‡	65	63	64·0	+2·5	IRELAND, S.W. ..	Cleggan	58	55	56·9	-0·5
ENGLAND, S.E. ..	Eastbourne‡	64	63	63·3	+2·0		Seafield	65	54	60·7	+0·1
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-EIGHTH WEEK—July 7th to July 13th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	72	43	61·4	50·2	55·4	+ 0·7	94	+ 5	0	0	5	+ 1	0·93	+0·13	3·8	−0·5	22	− 3
Eastern.																		
1. SCOTLAND, EAST ...	74	37	67·0	50·1	57·9	+ 1·4	111	+ 9	0	0	4	0	0·50	−0·21	4·2	−1·1	25	− 6
2. ENGLAND, N.E.	86	44	70·2	53·8	61·4	+ 2·6	136	+ 18	0	0	3	− 1	0·50	+0·02	6·0	−0·4	36	− 3
3. ENGLAND, EAST ...	91	42	73·8	56·8	64·7	+ 4·0	159	+ 28	0	0	2	− 1	0·10	−0·42	7·5	+0·4	46	+ 3
4. MIDLAND COUNTIES ...	87	39	71·6	53·6	62·0	+ 1·9	140	+ 13	0	0	3	0	0·17	−0·33	5·3	−1·0	33	− 6
5. ENGLAND, S.E.	88	36	72·9	56·2	64·0	+ 2·5	154	+ 18	0	0	3	0	0·21	−0·26	6·4	−0·9	40	− 6
Western.																		
6. SCOTLAND, WEST ...	72	43	64·3	51·0	57·2	0·0	106	0	0	0	5	+ 1	1·05	+0·20	5·5	−0·3	32	− 2
7. ENGLAND, N.W.	75	43	67·3	54·1	60·2	+ 1·3	127	+ 9	0	0	4	+ 1	0·53	−0·10	5·2	−1·0	31	− 6
8. ENGLAND, S.W.	79	36	65·8	53·9	59·4	− 0·4	122	− 3	0	0	5	+ 1	0·46	−0·18	2·6	−4·0	16	−25
9. IRELAND, NORTH ...	67	41	61·7	49·1	55·0	− 2·4	91	− 17	0	0	5	0	0·87	+0·14	4·5	−0·1	27	− 1
10. IRELAND, SOUTH ...	68	42	63·2	49·7	56·0	− 2·9	98	− 20	0	0	5	+ 2	0·80	+0·11	4·2	−1·0	26	− 6
11. ENGLISH CHANNEL ...	74	52	66·0	56·0	60·6	− 0·6	130	− 5	0	0	3	0	0·79	+0·27	4·8	−3·4	30	−21

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 6 Weeks, June 2nd to July 13th, 1912.

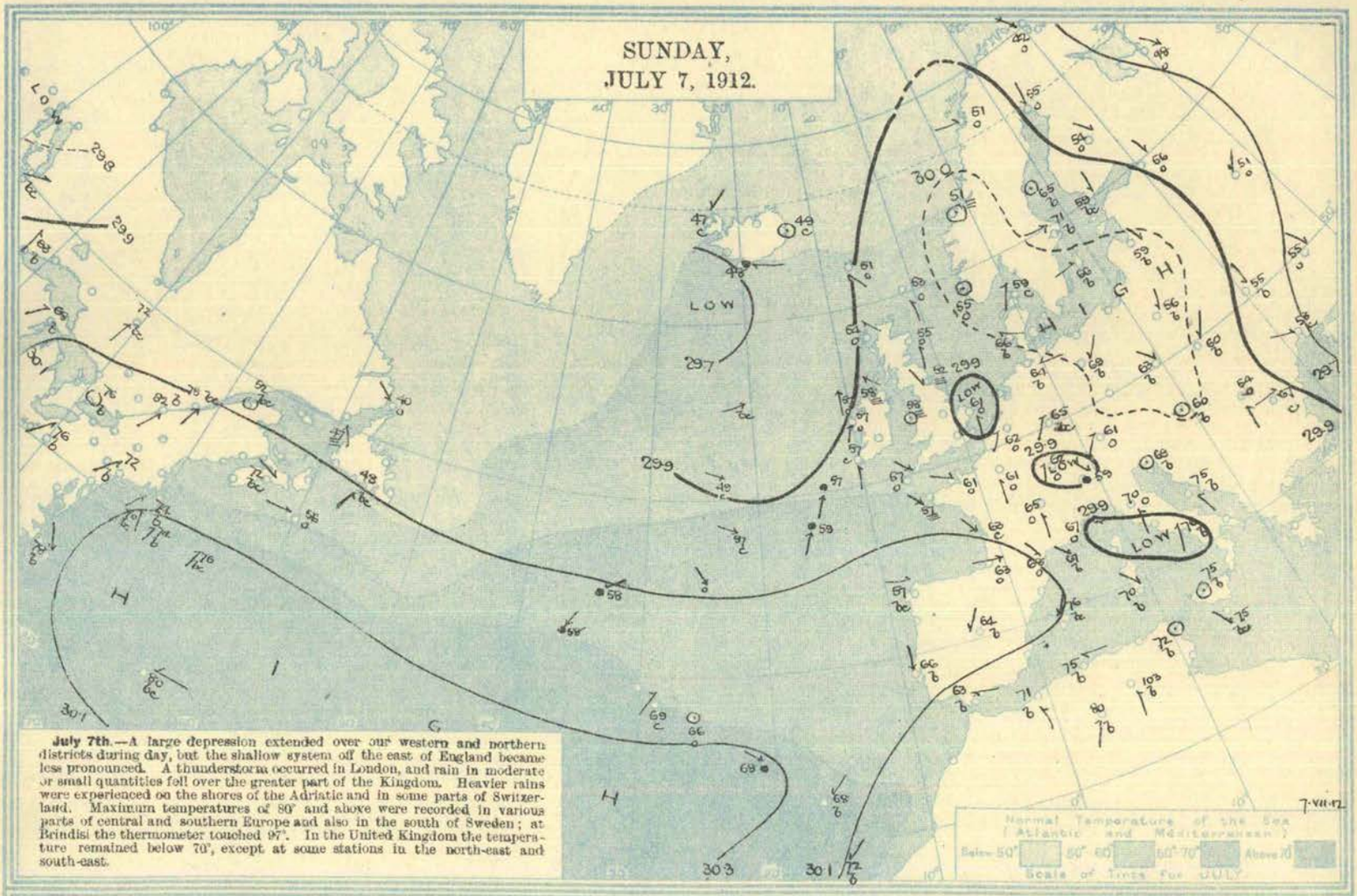
0. SCOTLAND, NORTH ...	74	38	*	*	*	*	462	− 21	0	− 2	26	+ 3	4·21	+0·03	3·1	−1·8	18	−10
Eastern.																		
1. SCOTLAND, EAST ...	78	32	*	*	*	*	510	− 35	0	− 1	28	+ 8	4·24	+0·86	2·9	−2·9	17	−17
2. ENGLAND, N.E.	86	42	*	*	*	*	602	− 6	0	0	30	+12	5·74	+3·09	4·2	−2·2	25	−13
3. ENGLAND, EAST ...	91	40	*	*	*	*	731	+ 45	0	0	23	+ 6	3·31	+0·51	6·3	−0·7	39	− 4
4. MIDLAND COUNTIES ...	87	38	*	*	*	*	649	− 28	0	0	26	+ 9	4·61	+1·74	4·6	−1·7	28	−11
5. ENGLAND, S.E.	88	36	*	*	*	*	704	− 16	0	0	21	+ 5	3·98	+1·37	6·3	−0·9	39	− 5
Western.																		
6. SCOTLAND, WEST ...	73	37	*	*	*	*	562	− 26	0	0	29	+ 8	6·56	+2·26	4·5	−1·7	27	−10
7. ENGLAND, N.W.	76	38	*	*	*	*	609	− 30	0	0	28	+ 9	5·07	+1·78	4·7	−1·8	28	−11
8. ENGLAND, S.W.	79	35	*	*	*	*	622	− 51	0	0	29	+10	5·85	+2·59	4·9	−2·0	30	−12
9. IRELAND, NORTH ...	72	35	*	*	*	*	529	− 63	0	0	30	+ 6	5·67	+1·85	4·3	−1·0	26	− 6
10 IRELAND, SOUTH ...	73	33	*	*	*	*	579	− 75	0	0	31	+11	6·57	+2·94	4·6	−1·3	28	− 8
11. ENGLISH CHANNEL ...	80	45	*	*	*	*	686	− 28	0	0	27	+ 8	4·36	+1·73	6·6	−1·6	41	−10

THE YEAR.—Aggregates, &c., for the Period of 28 Weeks, December 31st, 1911, to July 13th, 1912.

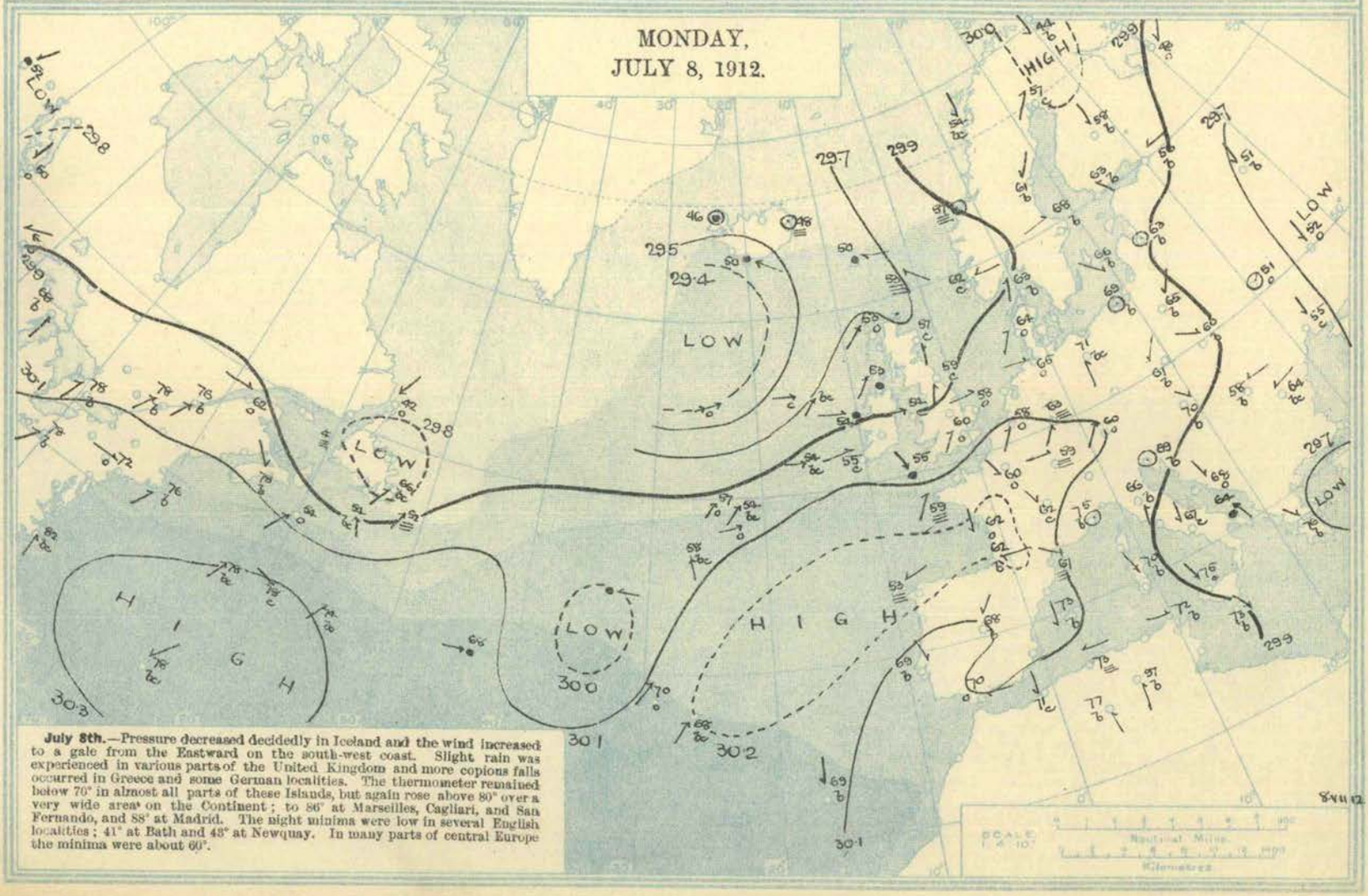
0. SCOTLAND, NORTH ...	74	7	*	*	*	*	950	+ 19	427	−130	130	+ 3	24·43	−0·59	3·3	−0·3	25	− 2
Eastern.																		
1. SCOTLAND, EAST ...	78	−5	*	*	*	*	1,116	+ 40	519	−101	118	+14	14·80	+0·16	3·4	−0·7	27	− 6
2. ENGLAND, N.E.	86	10	*	*	*	*	1,309	+149	373	−102	109	+14	15·40	+4·27	3·7	−0·7	29	− 6
3. ENGLAND, EAST ...	91	14	*	*	*	*	1,612	+235	274	−247	100	+ 8	11·53	+0·41	4·4	−0·3	35	− 2
4. MIDLAND COUNTIES ...	87	9	*	*	*	*	1,501	+105	373	−160	102	+11	16·59	+4·01	3·7	−0·5	29	− 5
5. ENGLAND, S.E.	88	13	*	*	*	*	1,625	+138	218	−163	95	+ 8	14·76	+2·54	4·6	−0·2	36	− 2
Western.																		
6. SCOTLAND, WEST ...	73	12	*	*	*	*	1,212	+ 32	329	− 96	119	+ 9	23·57	+1·45	3·8	−0·4	29	− 4
7. ENGLAND, N.W.	76	7	*	*	*	*	1,347	+ 84	298	− 88	109	+ 9	17·33	+1·75	3·9	−0·4	31	− 3
8. ENGLAND, S.W.	79	9	*	*	*	*	1,497	+ 59	189	−112	119	+20	22·13	+4·79	3·9	−0·8	31	− 6
9. IRELAND, NORTH ...	72	15	*	*	*	*	1,274	+ 22	237	−108	113	− 6	18·88	+1·10	3·5	−0·5	27	− 4
10. IRELAND, SOUTH ...	73	13	*	*	*	*	1,500	+ 27	167	− 92	132	+26	22·47	+3·32	3·5	−0·9	27	− 7
11. ENGLISH CHANNEL ...	80	27	*	*	*	*	1,883	+250	44	− 65	115	+ 9	17·86	+3·31	5·1	−0·5	40	− 5

NOTES ON TABLE IV.

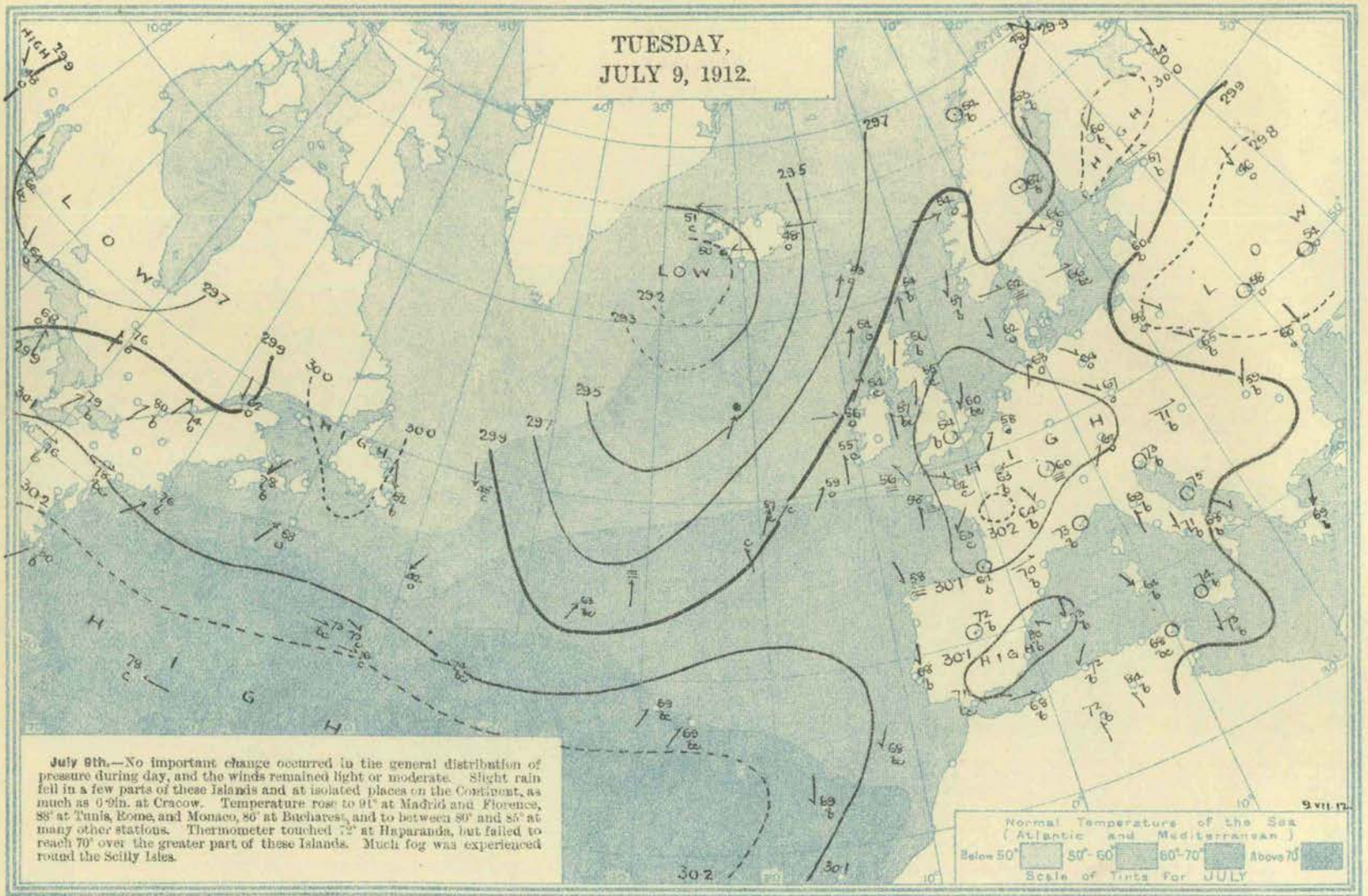
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



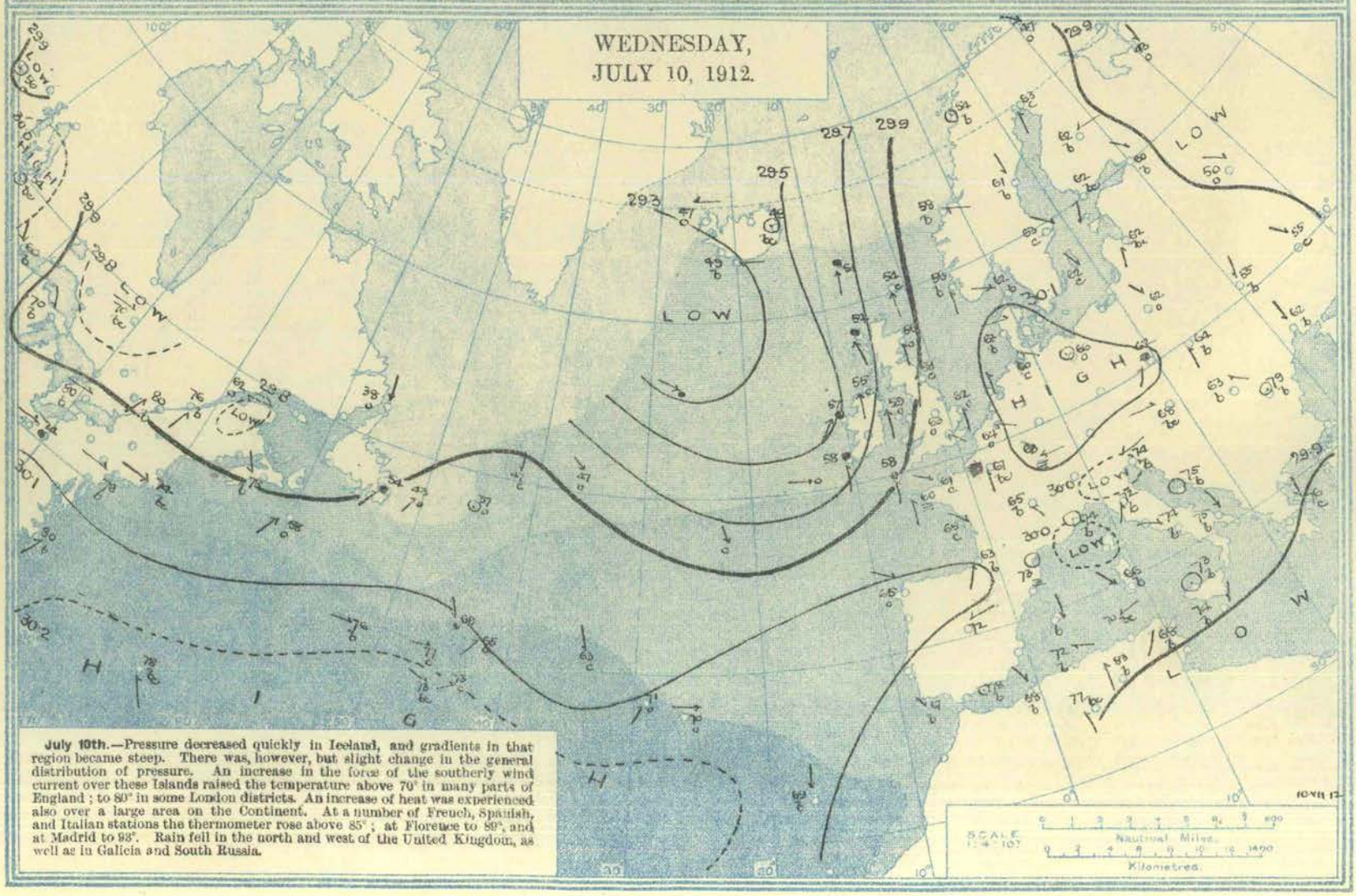
July 7th.—A large depression extended over our western and northern districts during day, but the shallow system off the east of England became less pronounced. A thunderstorm occurred in London, and rain in moderate or small quantities fell over the greater part of the Kingdom. Heavier rains were experienced on the shores of the Adriatic and in some parts of Switzerland. Maximum temperatures of 80° and above were recorded in various parts of central and southern Europe and also in the south of Sweden; at Brindisi the thermometer touched 97°. In the United Kingdom the temperature remained below 70°, except at some stations in the north-east and south-east.



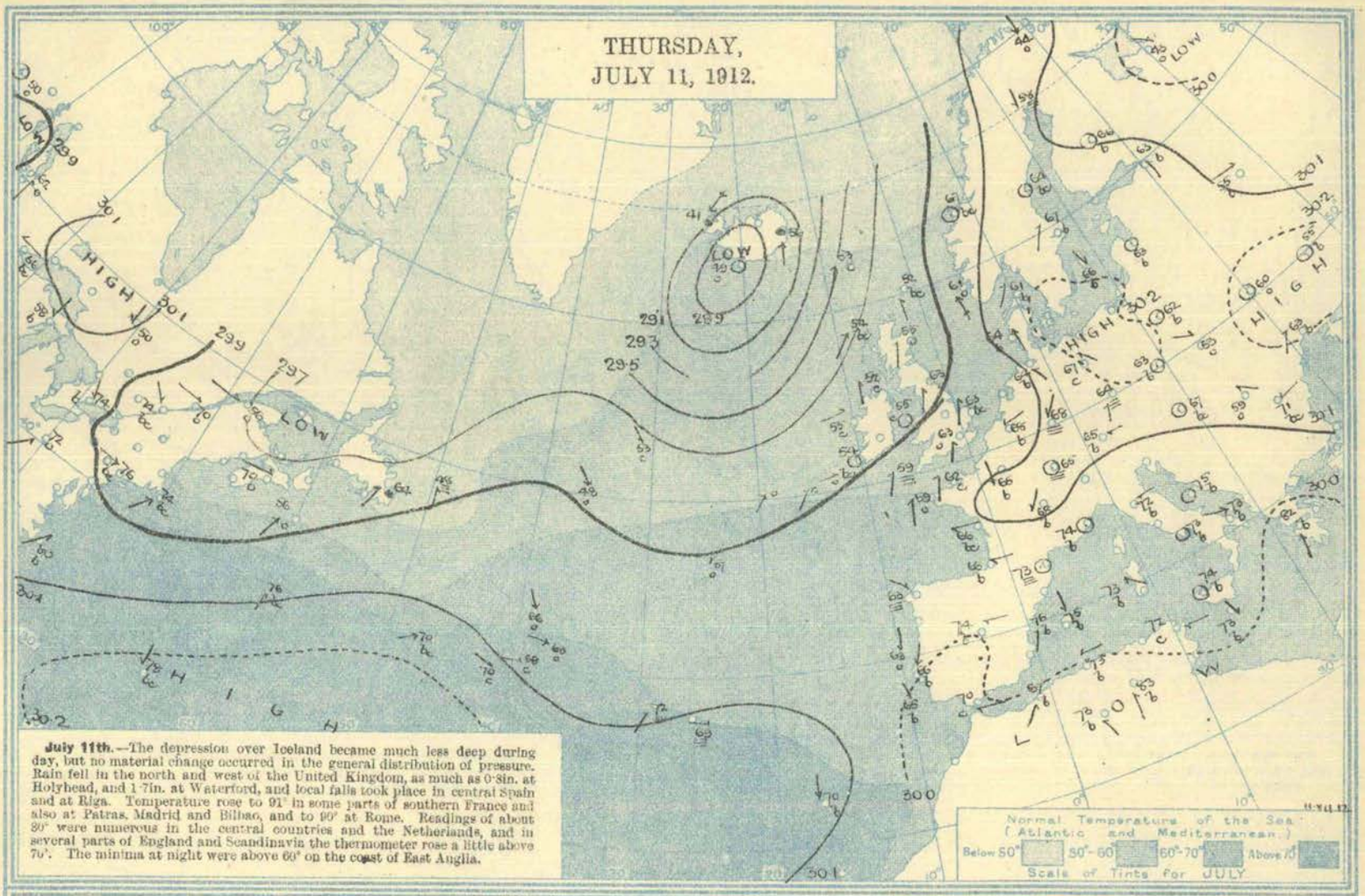
July 8th.—Pressure decreased decidedly in Iceland and the wind increased to a gale from the Eastward on the south-west coast. Slight rain was experienced in various parts of the United Kingdom and more copious falls occurred in Greece and some German localities. The thermometer remained below 70° in almost all parts of these Islands, but again rose above 80° over a very wide area on the Continent; to 86° at Marseilles, Cagliari, and San Fernando, and 88° at Madrid. The night minima were low in several English localities; 41° at Bath and 43° at Newquay. In many parts of central Europe the minima were about 60°.



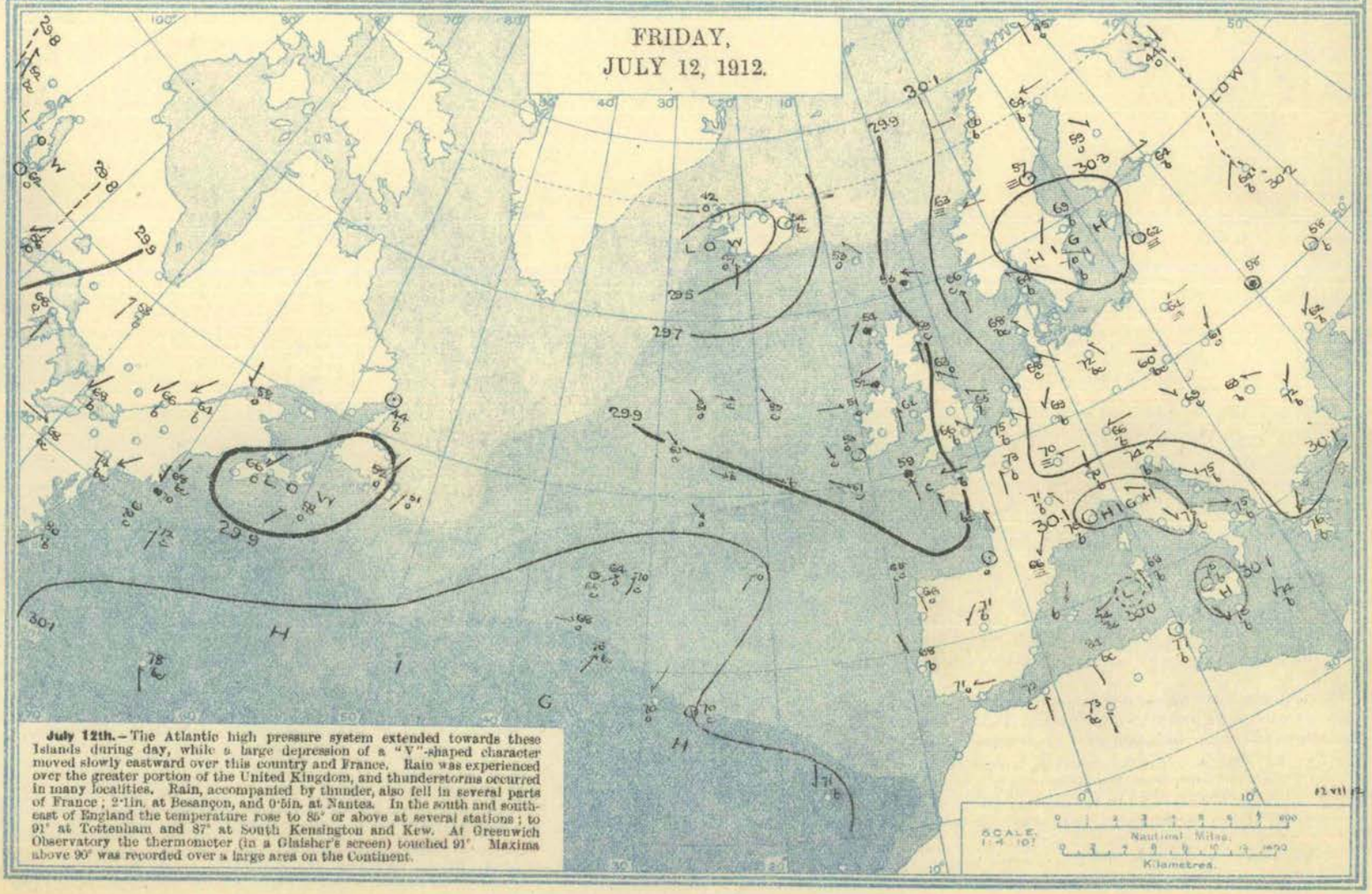
July 9th.—No important change occurred in the general distribution of pressure during day, and the winds remained light or moderate. Slight rain fell in a few parts of these Islands and at isolated places on the Continent, as much as 0·9in. at Cracow. Temperature rose to 91° at Madrid and Florence, 88° at Tunis, Rome, and Monaco, 86° at Bucharest, and to between 80° and 85° at many other stations. Thermometer touched 72° at Haparanda, but failed to reach 70° over the greater part of these Islands. Much fog was experienced round the Scilly Isles.



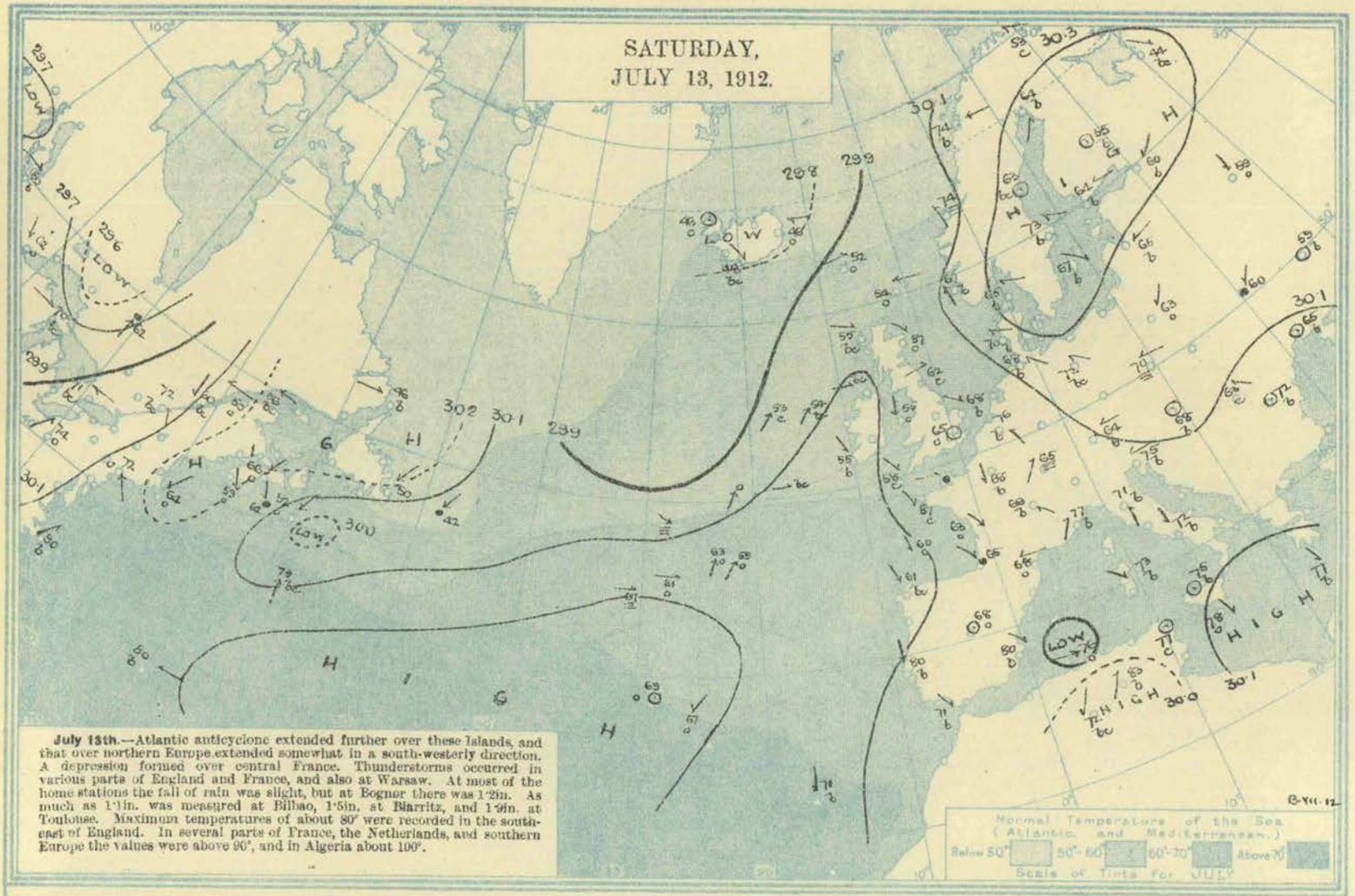
July 10th.—Pressure decreased quickly in Iceland, and gradients in that region became steep. There was, however, but slight change in the general distribution of pressure. An increase in the force of the southerly wind current over these Islands raised the temperature above 70° in many parts of England; to 80° in some London districts. An increase of heat was experienced also over a large area on the Continent. At a number of French, Spanish, and Italian stations the thermometer rose above 85°; at Florence to 89°, and at Madrid to 93°. Rain fell in the north and west of the United Kingdom, as well as in Galicia and South Russia.



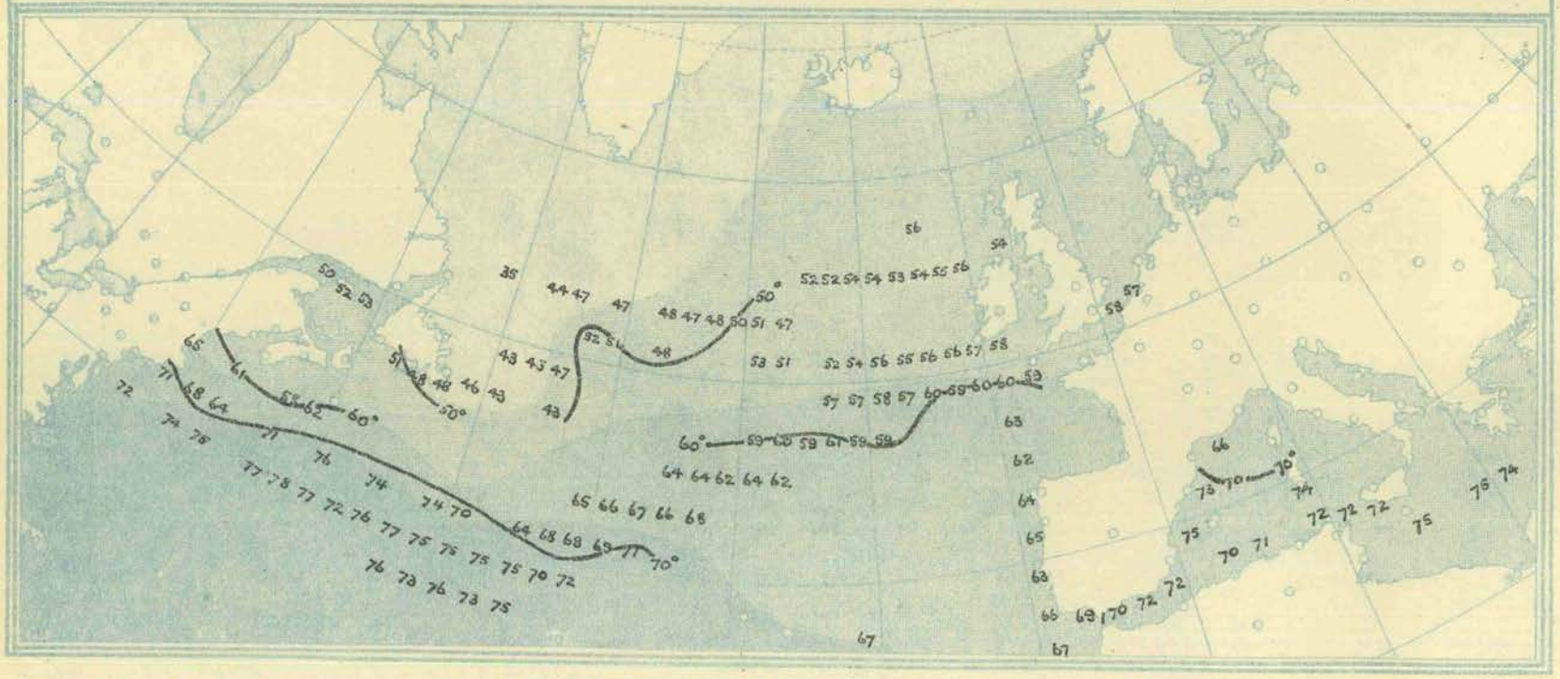
July 11th.—The depression over Iceland became much less deep during day, but no material change occurred in the general distribution of pressure. Rain fell in the north and west of the United Kingdom, as much as 0·3in. at Holyhead, and 1·7in. at Waterford, and local falls took place in central Spain and at Riga. Temperature rose to 91° in some parts of southern France and also at Patras, Madrid and Bilbao, and to 90° at Rome. Readings of about 80° were numerous in the central countries and the Netherlands, and in several parts of England and Scandinavia the thermometer rose a little above 70°. The minima at night were above 60° on the coast of East Anglia.



July 12th.—The Atlantic high pressure system extended towards these Islands during day, while a large depression of a "V"-shaped character moved slowly eastward over this country and France. Rain was experienced over the greater portion of the United Kingdom, and thunderstorms occurred in many localities. Rain, accompanied by thunder, also fell in several parts of France; 2·1in. at Besançon, and 0·5in. at Nantes. In the south and south-east of England the temperature rose to 85° or above at several stations; to 91° at Tottenham and 87° at South Kensington and Kew. At Greenwich Observatory the thermometer (in a Glaisher's screen) touched 91°. Maxima above 90° was recorded over a large area on the Continent.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 13TH JULY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⤇ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* } No. 29. TWENTY-NINTH WEEK, SUNDAY, JULY 14TH, TO SATURDAY, JULY 20TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d*

I.—General Remarks.

Weather. The general conditions remained fair and dry throughout a large area in Scotland, Ireland and the north-west of England, but towards the end of the period they became unsettled over England generally, and some rain was experienced in almost all localities. Thunder was heard on the 14th at Douglas, Dungeness and Kew, and a thunderstorm occurred at Alnwick Castle on the 20th.

Temperature was above the normal generally, the greatest excess (4°3) being experienced in England S.W. In Ireland N., however, it was below it, and in Scotland N. and E. and England N.E. it was in close agreement with the average. The highest of the maxima were registered on the 14th in most Scottish localities, but on the 15th in most parts of England and Ireland. In Scotland E. and in some English districts the thermometer rose to 87° or 88°, but in Ireland N. it only touched 75°, and in Scotland N. 74°. At Camden Square the instrument enclosed in a Glaisher's screen touched 90°. The lowest of the minima occurred at most stations in Great Britain on the 19th, but in Ireland on various dates. The values ranged from 37° in Scotland W. and 38° in Scotland E. and England S.E. to 46° in England N.E., and to 54° in the English Channel. The lowest grass readings were 33° at Marlborough and Wisley and 34° at Hampstead, West Linton and Llangammarch Wells. The thermometer sunk in the earth showed a temperature in excess of the normal both at 1 foot and 4 feet.

Mean Temperature of the Sea. The temperature of the water did not, as a rule, differ much from that of the corresponding week of last year, but on most parts of the coasts it was above the average. At Margate and Eastbourne the mean value was 62°, and at Seafield and Newquay 61°. At Wick and Lerwick it was only about 53°.

Rainfall was less than the average in all districts except England N.E. In Scotland and the north-west and south-west of England the fall was very slight. On the 19th as much as 1·2 in. fell at Canterbury, and on the 20th the thunderstorm at Alnwick Castle yielded 1·4 in.

Bright Sunshine exceeded the normal except in England N.E. and Scotland E., but except in Ireland the excess was not very great. In Scotland E. and England N.E. the mean daily duration was less than 5 hours, but in Scotland W. and England S.W. it was more than 8 hours, and in Ireland about 9½ hours. The percentage of the possible duration ranged from 61 in Ireland S. to 29 in north-eastern Britain.

Barometer and Wind. During the early days of the week an anticyclonic band extended across Ireland, Scotland and the north of England from the Atlantic to Scandinavia, while the south of England was partly under the influence of a large shallow depression over France and the Bay. These conditions underwent little modification until Wednesday, but by Thursday a depression which had developed over the south of Norway caused the wind in these Islands, which had previously been mainly from North-East and East, to shift to the Northward. This Northerly current continued until the end of the period, and during Friday, when it increased in force, it was accompanied by a very low temperature for the time of the year.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 115.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Unusual
	Rainfall ...	Very light	Very light	Moderate	Moderate	Light	Light	Very light	Very light	Very light	Very light	Light	Light
	Sunshine ...	Very abundant	Moderate	Scanty	Moderate	Moderate	Moderate	Abundant	Abundant	Abundant	Very abundant	Very abundant	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 7 weeks from June 2nd, 1912.	Warmth ...	0 * 2	0 * 2	2 * 2	3 * 1	3 * 2	2 * 2	1 * 1	2 * 2	1 * 3	0 * 3	0 * 4	2 * 2
	Rainfall ...	1 * 2	2 * 1	5 * 0	3 * 1	3 * 2	4 * 3	5 * 2	4 * 2	3 * 1	3 * 2	4 * 2	2 * 2
	Sunshine ...	1 * 3	0 * 6	0 * 5	2 * 2	0 * 3	0 * 2	1 * 2	1 * 4	1 * 4	1 * 4	1 * 5	0 * 3

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(25607—24.) Wt. 173—814. 450. 7/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week: Of Highest each day.	Mean for the Week: Of Lowest each day.	Mean for the Week: For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees): Above 42°	Accumulated Heat for the Week (in Day degrees): Below 42°	Grass Min.: Ground Frosts.	Grass Min.: Lowest Reading.	Earth 1 ft.: Mean.	Earth 1 ft.: Difference from Average.	Earth 4 ft.: Mean.	Earth 4 ft.: Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands .. *p* Baltasound .. S	*60*	*20th*	*46*	*17, 20*	*57·9*	*48·4*	*52·8*	—	*76*	*0*	•	•	55·7	•	•	•	*1*	*0·11*	—	*40*	—	*Baltasound.*		
a Lerwick	61	20th	46	17th	57·4	48·9	52·9	+ 0·5	76	0	•	•	•	•	•	•	1	0·07	—	7·1	—	40	—	Deerness.
a Stornoway	64	15th	44	20th	59·7	48·0	53·4	- 0·9	80	0	•	•	•	•	•	•	2	0·04	- 0·65	6·3	+ 1·7	37	+10	Stornoway.
a Castlebay, Barra Isd.	*61*	*16th*	*48*	*19th*	*58·6*	*50·3*	*54·2*	- *2·3*	*85*	*0*	•	•	•	•	•	•	*0*	*0·00*	—	*9·6*	—	*57*	—	*Castlebay.*
b, Mainland. *a* Wick	63	14th	45	20th	57·7	48·0	52·5	- 1·9	74	0	•	•	•	•	•	•	2	0·03	- 0·58	•	•	•	•	
p Strathpeffer ..	74	14th	43	19th	67·5	50·0	58·1	+ 2·0	113	0	•	•	•	•	•	•	0	0·00	- 0·63	8·0	+ 3·8	47	+23	Strathpeffer.
p Glencarron ..	68	20th	43	19th	63·6	49·3	56·0	+ 2·1	98	0	•	•	•	•	•	•	0	0·00	- 1·25	•	•	•	•	
p Fort Augustus..	73	15th	43	19th	65·7	49·3	56·9	+ 1·0	104	0	•	•	•	•	•	•	1	0·01	- 0·66	7·0	+ 3·8	41	+22	Fort Augustus.
p Fort William ..	74	16th	44	19th	69·7	50·3	59·3	+ 3·1	121	0	•	•	•	•	•	•	0	0·00	- 1·15	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	72	14th	47	15th	63·7	49·7	56·2	- 0·5	99	0	0	41	59·1	+1·1	54·6	+0·4	—	—	—	4·9	—	29	—	Crathes S.
a Nairn	72	14th	42	20th	64·4	48·9	56·1	- 0·5	99	0	•	•	•	•	•	•	2	0·05	- 0·73	*4·0*	—	*24*	—	*Gordon Castle.*
a Aberdeen ..	72	14th	49	14th	63·4	52·3	57·5	+ 1·1	109	0	•	•	•	•	53·3	+0·5	0	0·00	- 0·57	5·7	—	34	—	Nairn.
a Balmoral ..	87	15th	38	20th	71·1	45·1	57·2	+ 2·9	106	0	0	35	•	•	•	•	0	0·00	- 0·63	5·4	+ 0·2	32	+ 1	Aberdeen.
p Crieff	78	14th	45	18th	70·7	50·3	59·8	+ 1·9	125	0	•	•	•	•	•	•	0	0·00	- 0·65	•	•	•	•	Balmoral.
a Leith	69	14th	48	19th	64·4	52·9	58·3	- 0·1	114	0	•	•	•	•	•	•	0	0·00	- 0·68	3·6	•	22	•	Balruddery.
p West Linton ..	76	14th	38	19th	64·4	47·7	55·5	+ 0·1	95	0	0	34	•	•	•	•	0	0·00	- 0·60	•	•	•	•	
p Marchmont ..	74	14th	46	19th	63·0	50·3	56·2	- 0·3	99	0	0	41	60·3	+2·2	•	•	1	0·01	—	*4·8*	—	*29*	—	*West Linton.*
																	1	0·02	- 0·73	4·5	- 1·0	27	- 6	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	72	14th	49	18, 19	63·3	52·0	57·3	0·0	107	0	0	45	59·9	+1·6	56·1	+1·2	3	1·63	+ 0·99	4·1	—	25	—	Cockle Park.
a Shields	67	15th	48	20th	60·3	50·7	55·2	- 2·5	92	0	•	•	•	•	•	•	5	0·66	+ 0·10	•	•	•	•	*Newcastle.*
p Durham	75	15th	47	18, 19	63·9	51·1	57·1	- 1·7	106	0	0	?	•	•	•	•	4	0·36	- 0·30	3·7	- 1·7	23	-10	Durham.
p Rounton	71	15th	47	19th	61·6	51·4	56·1	- 1·5	99	0	0	45	61·1	•	•	•	5	0·77	+ 0·15	•	•	•	•	Rounton.
a West Witton	*80*	*15th*	*47*	*19th*	*67·4*	*51·6*	*59·0*	—	*119*	*0*	0	44	62·6	•	55·0	•	*4*	*0·23*	—	•	•	•	•	*West Witton.*
p Scarborough											•	•	•	•	•	•	—	—	—	—	—	—	—	Scarborough.
p York	82	15th	49	19th	71·1	54·1	62·0	+ 1·9	140	0	•	•	63·1	+4·4	57·7	+2·3	3	0·48	- 0·09	5·0	- 0·7	31	- 4	York.
b, South .. *a* Spurn Head	71	15th	50	18, 19	64·0	52·3	57·7	- 2·0	110	0	0	45	63·7	+3·9	55·6	+1·1	3	0·56	+ 0·18	*3·6*	—	*22*	—	*Hull.*
a Lincoln	83	15th	48	19th	71·6	54·0	62·2	+ 1·1	141	0	•	•	64·7	+4·4	57·2	+1·5	3	0·63	+ 0·13	•	•	•	•	Lincoln.
a Fulbeck	81	15th	46	19th	71·1	53·1	61·5	+ 0·7	137	0	0	46	65·1	+1·1	56·8	-0·5	3	0·72	+ 0·20	5·5	—	34	—	Rauceby.
											•	•	•	•	•	•	—	—	—	4·8	—	30	—	Skegness.
3. ENGLAND, E.											0	46	68·3	+5·6	60·9	+2·6	—	—	—	*9·0*	—	*56*	—	*Lowestoft.*
p Cromer	79	14th	50	19th	65·7	55·4	60·2	+ 0·2	127	0	•	•	•	•	•	•	4	0·60	—	6·4	—	40	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	—	•	—	Hillington.
a Yarmouth	72	14th	52	19th	68·0	58·6	63·0	+ 2·8	147	0	•	•	70·1	+5·9	61·9	+1·6	3	0·06	+ 0·06	7·5	—	47	—	Yarmouth.
a Norwich											•	•	57·8	•	•	•	—	—	—	*7·3*	—	*46*	—	*Norwich.*
p Geldeston	83	14th	48	19th	72·1	55·0	63·0	+ 2·5	147	0	•	•	•	•	•	•	3	0·87	+ 0·37	7·4	+ 0·5	46	+ 3	Geldeston.
b, South .. *p* Cambridge	86	15th	47	19th	73·4	54·6	63·4	+ 1·5	150	0	0	44	66·7	+4·0	61·2	+2·5	2	0·22	- 0·30	6·2	- 0·5	39	- 3	Cambridge.
a Felixstowe	*75*	*17th*	*48*	*19th*	*69·4*	*56·9*	*62·7*	+ *1·0*	*145*	*0*	•	•	•	•	•	•	3	*0·37*	—	*7·8*	—	*49*	—	*Felixstowe.*
a Clacton-on-Sea ..	77	17th	42	19th	69·7	57·3	63·1	+ 1·4	148	0	0	41	65·0	+4·3	60·0	+1·0	2	0·89	—	7·6	—	48	—	Clacton.
a Rothamsted	86	15th	46	19th	74·0	54·0	63·3	+ 2·9	149	0	•	•	•	•	•	•	2	0·69	+ 0·14	6·8	- 0·1	43	- 1	Rothamsted.
a Shoeburyness ..	77	*14, 17*	*46*	*19th*	*71·3*	*56·7*	*63·5*	+ *0·3*	*151*	*0*	0	45	70·1	+5·3	•	•	3	*0·39*	- *0·01*	7·2	—	*45*	—	*Southend.*
p Tottenham	88	15th	48	19th	77·1	56·7	66·2	+ 4·2	169	0	0	45	•	•	61·2	+1·3	1	0·02	—	7·1	—	44	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	79	15th	47	19th	67·3	52·7	59·5	+ 2·0	123	0	0	44	64·7	+4·0	55·2	+0·5	—	—	—	*5·5*	—	*34*	—	*Huddersfield.*
a Bawtry	82	15th	48	19th	71·6	53·6	62·0	+ 1·8	140	0	0	43	63·9	•	58·4	•	3	0·91	+ 0·39	5·0	—	31	—	Harrogate.
p Buxton	*81*	*15th*	*50*	*16, 20*	*70·4*	*53·0*	*61·1*	+ *4·2*	*134*	*0*	0	42	62·6	+3·8	54·0	+0·8	3	0·81	- 0·16	4·3	- 1·1	27	- 7	Worksop.
a East .. *a* Nottingham	82	15, 16	49	19th	71·7	54·6	62·6	+ 1·9	144	0	0	41	63·8	+3·0	59·6	+2·9	2	*0·56*	- *0·29*	*8·0*	—	*50*	—	*Buxton.*
p Birmingham, Edgbn.	82	15th	46	19th	70·7	55·0	62·3	+ 2·1	142	0	0	39	58·7	+2·4	53·0	+0·9	3	0·46	- 0·05	5·1	—	32	—	Nottingham.
a Raunds	84	15th	45	19th	73·3	53·6	62·8	+ 1·6	146	0	0	39	64·8	•	57·1	•	2	0·28	- 0·22	5·7	—	36	—	Birmingham.
a Oxford	87	15th	46	19th	74·3	54·9	63·9	+ 2·3	153	0	0	—	•	•	•	•	2	0·35	—	•	•	•	•	Raunds.
											0	44	62·5	+3·9	55·3	+1·4	2	0·30	- 0·24	7·2	+ 0·7	45	+ 4	Oxford.
																	1	—	—	5·2	—	32	—	Sheffield.
a Cheadle	81	15th	44	19th	72·1	53·3	62·1	+ 3·8	141	0	0	40	•	•	•	•	3	0·39	- 0·24	•	•	•	•	Cheadle.
p Shrewsbury	87	15th	46	19th	74·7	52·4	62·8	+ 3·3	146	0	0	45	•	•	•	•	3	0·21	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	86	15th	44	19th	74·0	54·0	63·3	+ 3·0	149	0	0	37	•	•	•	•	2	0·19	- 0·31	•	•	•	•	Hereford.
a Cirencester	84	15th	44	19th	72·7	54·3	62·9	+ 3·3	146	0	0	39	63·0	•	57·6	•	2	0·29	- 0·29	8·8	+ 2·4	55	+15	Cirencester.
a Bath	88	15th	45	19th	66·6	56·4	61·1	+ 0·1	134	0	•	•	•	•	•	•	2	0·11	- 0·47	7·9	—	50	—	Bath.
5. ENGLAND, S.E.																								
p Kew	85	14, 15	48	19th	75·0	57·3	65·5	+ 3·3	165	0	0	37	?	•	60·9	+2·1	—	—	—	•	•	•	•	Canterbury.
a Marlborough	85	15th	38	19th	74·1	51·3	61·9	+ 2·2	139	0	0	38	65·6	+3·6	58·8	+1·6	1	0·16	- 0·36	6·9	+ 0·2	43	+ 1	Kew.
a Margate	78	14, 15	53	19, 20	70·4	59·4	64·5	+ 2·6	158	0	0	33	•	•	•	•	2	0·43	- 0·12	7·3	+ 1·2	46	+ 7	Mariborough.
a Wisley, Surrey ..	87	15th	45	19th	75·7	54·0	64·1	+ 1·4	155	0	0	33	66·2	+3·8	60·4	+1·7	2	0·25	- 0·19	6·3	- 0·4	40	- 3	Margate.
a Swarraton	85	15th	43	19th	74·1	54·0	63·4	+ 3·4	150	0	0	38	68·1	+4·2	61·0	+1·7	1	0·14	—	6·6	—	42	—	Wisley
a Tunbridge Wells ..	87	15th	45	19th	75·6	56·1	65·2	+ 4·2	162	0	0	42	67·0	+3·7	•	•	2	0·22	- 0·31	8·2	—	52	—	Worthing.
a Dungeness	79	14th	47	19th	70·7	57·6	63·7	+ 2·6	152	0	0	•	•	•	•	•	2	0·12	- 0·38	8·2	+ 1·4	52	+ 9	Tunbridge Wells.
p Hastings..	84	15, 16	48	19th	74·0	58·7	65·8	+ 4·7	167	0	0	45	68·2	•	61·6	•	2	0·20	- 0·19	7·9	—	50	—	Littlestone.
p Southampton	87	15th	48	19th	77·4	58·3	67·2	+ 4·2	176	0	0	42	•	•	•	•	3	0·34	- 0·15	*7·9*	+ *0·1*	*50*	+ *1*	*Hastings.*
a Ventnor	80	17th	47	19th	74·0	59·4	66·2	+ 4·3	169	0	•	•	•	•	•	•	2	0·07	- 0·46	9·1	+ 1·9	57	+12	Southampton.
											•	•	•	•	•	•	1	0·02	- 0·46	8·7	+ 1·6	55	+10	Ventnor.
											0	45	68·4	+3·6	61·7	+1·4	—	—	—	*8·9*	—	*57*	—	*Portsmouth.*
											•	•	66·1	•	61·1	•	—	—	—	7·7	0·0	49	0	Eastbourne.
											•	•	64·8	•	62·1	•	—	—	—	*9·3*	—	*59*	—	*Bournemouth.*
LONDON.											0	42	•	•	62·7	•	—	—	—	*7·6*	*0·0*	*48*	*0*	*Brighton.*
a Westminster	*87*	*14th*	*49*	*19th*	*76·6*	*58·7*	*67·0*	+ *4·8*	*175*	*0*	0	44	•	•	•	•	*1*	*0·01*	- *0·49*	*7·1*	+ *1·2*	*44*	+ *8*	*Westminster.*
a Greenwich	*88*	*14th*	*48*	*19th*	*78·0*	*56·1*	*66·3*	+ *3·2*	*170*	*0*	0	41	•	•	•	•	*1*	*0·04*	- *0·49*	*7·1*	- *0·5*	*44*	- *3*	*Greenwich.*
a Hampstead	*85*	*15th*	*45*	*19th*	*74·3*	*54·7*	*63·8*	—	*153*	*0*	0	34	•	•	•	•	*1*	*0·06*	—	*7·3*	—	*45*	—	*Hampstead.*
a Camden Square ..	*90*	*15th*	*48*	*19th*	*79·4*	*57·0*	*67·4*	—	*178*	*0*	0	45	•	•	•	•	*1*	*0·03*	—	*6·1*	—	*38*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	69	16th	47	15, 19	65·6	49·0	56·7	- 0·8	103	0	•	•	•	•	•	•	1	0·05	- 0·87	•	•	•	•	
p Glasgow	73	14, 15	47	19th	69·1	52·6	60·3	+ 2·8	128	0	0	36	•	•	•	•	0	0·00	- 0·72	7·3	+ 2·7	44	+16	Glasgow.
p Rothesay .. S.	77	16th	46	19th	72·7	51·0	61·1	+ 3·8	134	0	•	•	•	•	55·7	+0·7	1	0·74	- 0·18	•	•	•	•	
a Kilmarnock ..	76	15th	37	19th	70·4	49·1	59·0	+ 1·4	119	0	•	•	•	•	•	•	0	0·00	—	*8·7*	—	*52*	—	*Kilmarnock.*
a Colmonell ..	71	14th	39	19th	67·7	50·3	58·4	+ 1·2	115	0	0	37	•	•	•	•	0	0·00	- 0·73	•	•	•	•	
p Dumfries ..	80	14, 15	45	19th	71·4	53·4	61·8	+ 3·1	139	0	0	38	63·9	•	59·3	•	0	0·00	- 0·76	*8·6*	—	*52*	—	*Dumfries.*
p Cally, Gatehouse	83	15th	40	18th	72·7	50·4	60·8	+ 3·0	132	0	•	•	•	•	•	•	0	0·00	- 0·86	•	•	•	•	
b I. OF MAN.																								
p Douglas	75	15, 16	47	19, 20	68·3	52·0	59·6	+ 2·3	123	0	0	44	•	•	•	•	1	0·03	- 0·65	9·1	+ 2·7	56	+17	Douglas.
											0	40	62·8	+4·1	55·4	+1·0	—	—	—	*6·6*	—	*41*	—	*Burnley.*
											•	•	•	•	•	•	—	—	—	•	•	•	•	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	82	15th	42	19th	70·9	52·1	60·9	+ 4·1	132	0	0	35	63·8	•	55·8	•	0	0·00	- 0·85	7·7	—	47	—	Aspatria.
p Newton Rigg	84	15th	44	19th	72·0	52·9	61·8	+ 5·0	139	0	0	37	63·7	+3·9	56·0	+1·0	1	0·01	- 0·69	6·4	+ 0·7	39	+ 4	Newton Rigg.
p Stonyhurst	83	15th	49	19th	72·5	55·7	63·5	+ 5·4	151	0	?0	?44	•	•	•	•	1	0·01	- 0·86	6·6	+ 0·8	41	+ 5	Stonyhurst.
p Blackpool	80	16th	49	19th	69·9	55·3	62·1	+ 2·9	141	0	0	40	63·0	•	55·7	•	0	0·00	- 0·63	7·3	+ 1·3	45	+ 8	Blackpool.
p Manchester (Whit. Pk.)	*86*	*14th*	*50*	*15th*	*74·3*	*58·6*	*64·8*	—	*160*	*0*	0	44	•	•	•	•	*1*	*0·13*	—	*5·9*	—	*37*	—	*Whit Park.*
a Liverpool (Bidston) ..	75	16, 17	51	19th	68·3	56·1	61·8	+ 1·5	139	0	•	•	•	•	•	•	1	0·04	- 0·56	*6·8*	—	*42*	—	*Liverpool.*
a Hawarden Bridge ..	84	16th	50	19th	70·9	55·0	62·4	+ 2·3	143	0	0	44	65·6	+1·9	60·9	+0·7	2	0·03	- 0·46	*7·1*	+ *0·7*	*44*	+ *4*	*Southport.*
											0	45	64·9	+4·8	58·7	+1·5	—	—	—	*4·9*	—	*30*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	74	16th	54	18, 19	68·1	57·0	62·2	+ 2·5	141	0	•	•	•	•	•	•	1	0·01	- 0·52	7·6	+ 1·6	47	+10	Llandudno.
a Holyhead	64	16, 17	52	18th	61·4	55·1	58·0	- 0·2	112	0	•	•	•	•	•	•	0	0·00	- 0·58	9·6	—	60	—	Aberdovey.
p Bettws-y-Coed ..	82	16th	45	19th	71·0	55·1	62·5	+ 3·5	144	0	0	52	60·6	+2·5	55·6	+1·6	0	0·00	—	8·0	—	50	—	Bettws-y-Coed.

For notes see opposite page. † At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	84	15th	41	19th	74·0	51·6	62·0	+ 3·9	140	0	0	34	62·0	+4·2	53·8	+0·8	2	0·09	—	8·2	—	51	—	Aberystwyth.
a Pembroke	75	17th	52	19th	67·4	56·4	61·5	+ 3·2	137	0	*	*	*	*	*	*	0	0·00	- 0·55	7·6	+ 1·0	48	+ 6	Llangammarch
p Cardiff	84	15th	48	19th	73·7	57·3	64·9	+ 3·9	160	0	0	44	65·5	+5·1	58·7	+0·6	1	0·07	- 0·66	*9·4*	—	*59*	—	Pembroke.[Wells
																								Cardiff.
b, ENGLAND, S.W.																								
a Clifton	88	15th	50	19th	75·4	57·1	65·6	+ 3·8	165	0	0	46	*	*	*	*	2	0·27	- 0·38	*8·0*	—	*52*	*1*	*Clifton.*
a Shaftesbury	83	15th	43	19th	74·0	54·9	63·8	+ 4·1	153	0	*	*	64·9	*	59·1	*	2	0·31	- 0·28	*	*	*	*	Shaftesbury.
a Arlington	84	15th	48	19th	73·0	56·6	64·2	+ 6·0	155	0	*	*	53·5	*	*	*	1	0·03	- 0·87	8·4	+ 1·5	54	+10	Newquay.
a Cullompton	86	15th	49	19th	76·9	56·7	66·1	+ 5·7	169	0	0	45	65·0	*	*	*	2	0·19	- 0·46	8·3	+ 2·2	53	+14	Cullompton.
a Portland	79	17th	50	19th	71·3	57·9	64·1	+ 4·0	155	0	*	*	*	*	*	*	2	0·08	—	*10·1*	—	*64*	—	*Weymouth.*
p Plymouth	84	15th	52	19th	75·7	58·8	66·7	+ 5·7	173	0	0	47	65·8	+0·7	*	*	1	0·03	- 0·62	8·9	+ 2·1	57	+13	Plymouth.
p Falmouth	76	15, 16, 17	55	19, 20	69·6	59·4	64·1	+ 3·9	155	0	*	*	*	*	*	*	1	0·05	- 0·61	9·0	+ 1·7	57	+11	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	65	14th	49	14th	59·0	50·7	54·6	- 1·8	88	0	*	*	*	*	*	*	2	0·30	- 0·35	*	*	*	*	* *
a Blacksod Point ..	60	14, 20	48	14th	58·9	52·0	55·2	- 2·3	92	0	*	*	*	*	*	*	0	0·00	- 0·68	*	*	*	*	* *
p Markree Castle ..	73	16th	39	14th	66·0	45·9	55·3	- 1·6	93	0	0	36	61·1	*	55·6	*	1	0·23	- 0·54	10·4	+ 6·2	64	+38	Markree Castle.
a Birr Castle	75	15th	43	20th	69·3	46·6	57·2	- 1·2	106	0	*	*	*	*	*	*	1	0·56	- 0·09	*8·3*	*+ 3·8*	*52*	*+24*	*Birr Castle.*
b, East .. *p* Armagh	73	14th	42	19th	68·3	46·0	56·4	- 1·3	101	0	0	36	61·7	+0·2	56·4	-0·6	0	0·00	- 0·68	8·3	+ 3·7	51	+23	Armagh.
a Donaghadee	63	14th	49	19th	60·9	51·9	56·1	- 1·4	99	0	*	*	*	*	*	*	0	0·00	- 0·66	*	*	*	*	* *
											0	41	61·4	+0·4	57·3	0·0	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	41	*	*	*	*	—	—	—	7·8	+ 2·4	48	+15	Phœnix Park.
p Dublin, City	73	15th	47	19th	69·1	51·9	59·9	- 0·5	125	0	0	46	*	*	*	*	0	0·00	- 0·57	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	76	15th	44	19th	70·7	49·3	59·3	+ 0·4	121	0	*	*	*	*	*	*	2	0·11	- 0·51	*	*	*	*	* *
a Waterford	79	16th	40	14th	70·9	49·0	59·2	- 0·5	120	0	*	*	*	*	*	*	0	0·00	- 0·75	*	*	*	*	* *
a Birr Castle	75	15th	43	20th	69·3	46·6	57·2	- 1·2	106	0	*	*	*	*	*	*	1	0·56	- 0·09	8·3	+ 3·8	52	+24	Birr Castle.
a Foynes	73	15, 16	45	14th	68·9	49·9	58·7	- 0·1	117	0	*	*	*	*	*	*	1	0·01	- 0·68	*	*	*	*	* *
a Cahir	78	15th	44	14th	71·4	51·6	60·8	+ 1·8	132	0	*	*	*	*	*	*	1	0·11	—	*	*	*	*	* *
b, West .. *a* Killarney	78	16th	44	14th	72·1	49·9	60·2	+ 1·7	127	0	*	*	*	*	*	*	0	0·00	- 0·76	*	*	*	*	* *
a Valencia	75	15, 16	43	14th	67·3	51·9	59·1	+ 0·7	120	0	*	*	*	*	*	*	0	0·00	- 0·86	12·6	+ 7·7	79	+48	Valencia.
a Roche's Point	76	15, 16	50	20th	71·9	53·9	62·3	+ 3·0	142	0	*	*	*	*	*	*	1	0·52	- 0·12	10·3	—	65	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	70	16th	54	19th	65·1	56·4	60·5	- 0·2	130	0	*	*	*	*	*	*	0	0·00	- 0·54	8·7	+ 1·7	56	+11	Scilly.
a Jersey, St. Aubins ..	82	16th	55	20th	73·0	56·9	64·4	+ 2·2	157	0	*	*	*	*	*	*	3	0·36	- 0·29	8·4	+ 0·3	54	+ 2	St. Heliers.
a Guernsey (Villa Carey)	75	15th	54	19th	69·1	58·0	63·2	+ 1·9	148	0	0	49	65·7	+2·4	61·8	+1·9	3	0·27	- 0·22	8·0	- 0·3	51	- 2	Guernsey.*

Additional Sunshine Means:—*Bognor, 8·9 hrs. 57 %; Ramsgate, 7·5 hrs. 46 %; Rhyl, 7·3 hrs. 45 %; Salcombe, 8·4 hrs. 54 %; Tenby, 10·1 hrs. (+3·4) 64 %(+21 %); Torquay, 9·4 hrs. (+2·3) 60 %(+14 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, July 20th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	53	52	52·2	-0·2	SCOTLAND, W. ..	Lamlash	62	57	59·2	+3·3
	Kirkwall	—	—	—	—		Ballantrae	59	55	57·0	+1·7
	Wick	53	52	53·0	+0·3	ENGLAND, N.W. ..	Port Erin	60	55	56·9	+1·8
	Cromarty	59	55	57·2	+1·5		Newquay	60	59	59·5	-1·2
SCOTLAND, E. ..	Pennan Bay	60	55	57·9	+1·9	ENGLAND, S.W. ..	Scilly	60	58	58·8	—
	Aberdeen, Cove Bay	54	53	53·6	-0·4		Plymouth‡	62	59	61·1	+1·2
	Burnmouth, Berwick	54	53	53·8	+0·1		Salcombe	64	57	59·4	+1·7
ENGLAND, N.E. ..	Scarborough	54	52	53·5	-1·9	IRELAND, N.W. ..	Sheephaven	60	58	59·2	+0·7
	Shipwash Lightship	66	62	64·3	+4·3		Teelin	60	57	58·0	-1·5
ENGLAND, E. ..	Margate‡	68	66	67·4	+5·0	IRELAND, S.W. ..	Cleggan	60	56	57·8	+0·3
ENGLAND, S.E. ..	Eastbourne‡	68	65	66·4	+4·2		Seafield	67	58	62·3	+1·6
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

TWENTY-NINTH WEEK—July 14th to July 20th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av. (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	74	43	63·0	49·1	55·6	+ 0·6	95	+ 4	0	0	1	− 4	0·02	−0·76	6·9	+2·8	40	+16
Eastern.																		
1. SCOTLAND, EAST ...	87	38	65·6	49·7	57·1	+ 0·2	106	+ 2	0	0	1	− 3	0·01	−0·72	4·8	−0·3	29	− 2
2. ENGLAND, N.E.	83	46	65·9	52·3	58·6	− 0·1	116	− 1	0	0	4	+ 1	0·73	+0·19	4·8	−1·5	29	− 9
3. ENGLAND, EAST ...	88	42	71·4	55·9	63·2	+ 2·5	148	+ 17	0	0	2	− 1	0·56	−0·03	7·0	+0·3	44	+ 2
4. MIDLAND COUNTIES ...	88	44	71·7	54·1	62·3	+ 2·2	142	+ 15	0	0	2	− 1	0·33	−0·25	6·2	+0·4	38	+ 2
5. ENGLAND, S.E.	87	38	74·1	56·6	64·8	+ 3·2	160	+ 23	0	0	2	− 1	0·20	−0·35	7·7	+0·9	48	+ 6
Western.																		
6. SCOTLAND, WEST ...	83	37	69·7	51·0	59·7	+ 2·3	124	+ 16	0	0	1	− 3	0·10	−0·72	8·2	+2·8	49	+17
7. ENGLAND, N.W.	84	42	69·4	54·9	61·7	+ 2·7	138	+ 19	0	0	1	− 3	0·01	−0·71	7·6	+1·9	47	+12
8. ENGLAND, S.W.	88	41	73·1	56·7	64·3	+ 4·3	156	+ 30	0	0	1	− 3	0·11	−0·64	8·5	+2·4	54	+15
9. IRELAND, NORTH ...	75	39	63·7	48·9	55·8	− 1·6	97	− 11	0	0	1	− 4	0·18	−0·62	9·4	+5·0	57	+31
10. IRELAND, SOUTH ...	79	40	70·2	50·4	59·6	+ 0·5	123	+ 3	0	0	1	− 4	0·15	−0·57	9·8	+4·9	61	+31
11. ENGLISH CHANNEL ...	82	54	69·1	57·1	62·7	+ 1·2	145	+ 8	0	0	2	− 2	0·19	−0·38	8·4	+0·9	54	+ 6

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 7 Weeks, June 2nd to July 20th, 1912.

0. SCOTLAND, NORTH ...	74	38	*	*	*	*	557	− 17	0	− 2	27	− 1	4·23	−0·73	3·7	−1·1	21	− 6
Eastern.																		
1. SCOTLAND, EAST ...	87	32	*	*	*	*	616	− 33	0	− 1	29	+ 5	4·25	+0·14	3·2	−2·5	19	−15
2. ENGLAND, N.E	86	42	*	*	*	*	718	− 7	0	0	34	+13	6·47	+3·28	4·3	−2·0	26	−12
3. ENGLAND, EAST ...	91	40	*	*	*	*	879	+ 62	0	0	25	+ 5	3·87	+0·48	6·4	−0·5	39	− 3
4. MIDLAND COUNTIES ...	88	38	*	*	*	*	791	− 13	0	0	28	+ 8	4·94	+1·49	4·8	−1·4	30	− 9
5. ENGLAND, S.E.	88	36	*	*	*	*	864	+ 7	0	0	23	+ 4	4·18	+1·02	6·5	−0·6	40	− 4
Western.																		
6. SCOTLAND, WEST ...	83	37	*	*	*	*	686	− 10	0	0	30	+ 5	6·66	+1·54	5·0	−1·1	30	− 6
7. ENGLAND, N.W.	84	38	*	*	*	*	747	− 11	0	0	29	+ 6	5·08	+1·07	5·1	−1·3	31	− 8
8. ENGLAND, S.W.	88	35	*	*	*	*	778	− 21	0	0	30	+ 7	5·96	+1·95	5·4	−1·4	33	− 9
9. IRELAND, NORTH ...	75	35	*	*	*	*	626	− 74	0	0	31	+ 2	5·85	+1·23	5·0	−0·2	30	− 1
10 IRELAND, SOUTH ...	79	33	*	*	*	*	702	− 72	0	0	32	+ 7	6·72	+2·37	5·4	−0·3	33	− 2
11. ENGLISH CHANNEL ...	82	45	*	*	*	*	831	− 20	0	0	29	+ 6	4·55	+1·35	6·9	−1·2	43	− 8

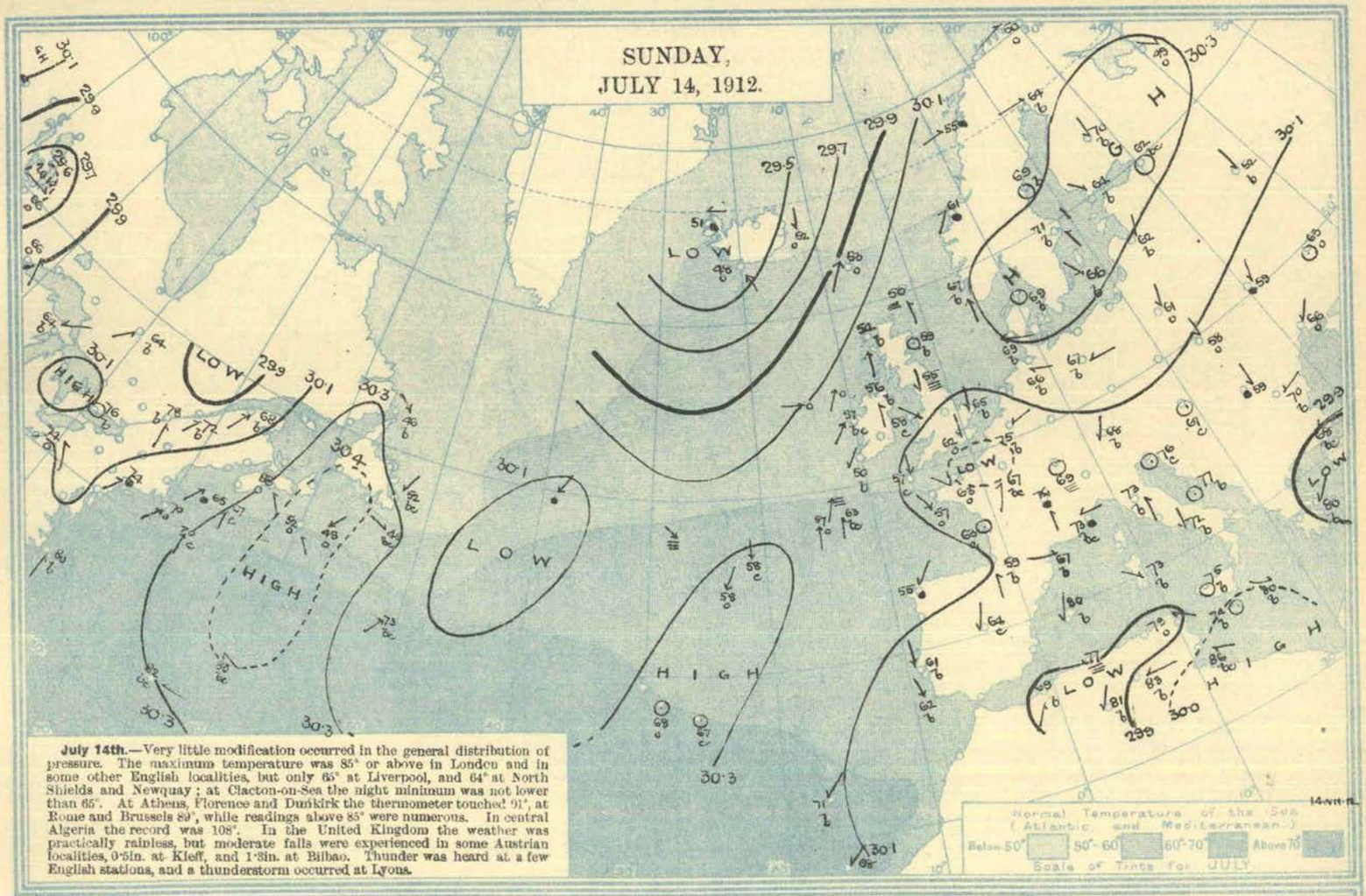
THE YEAR.—Aggregates, &c., for the Period of 21 Weeks, December 31st, 1911, to July 20th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1,045	+ 23	427	−130	131	− 1	24·45	−1·35	3·4	−0·2	26	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1,222	+ 42	519	−101	119	+11	14·81	−0·56	3·5	−0·7	27	− 5
2. ENGLAND, N.E.	86	10	*	*	*	*	1,425	+148	373	−102	113	+15	16·13	+4·46	3·7	−0·8	29	− 6
3. ENGLAND, EAST ...	91	14	*	*	*	*	1,760	+252	274	−247	102	+ 7	12·09	+0·38	4·5	−0·3	35	− 2
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	1,643	+120	373	−160	104	+10	16·92	+3·76	3·7	−0·6	29	− 4
5. ENGLAND, S.E.	88	13	*	*	*	*	1,785	+161	218	−163	97	+ 7	14·96	+2·19	4·7	−0·1	36	− 1
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1,336	+ 48	329	− 96	120	+ 6	23·67	+0·73	3·9	−0·4	30	− 3
7. ENGLAND, N.W.	84	7	*	*	*	*	1,485	+103	298	− 88	110	+ 6	17·34	+1·04	4·0	−0·3	31	− 3
8. ENGLAND, S.W.	88	9	*	*	*	*	1,653	+ 89	189	−112	120	+17	22·24	+4·15	4·1	−0·7	32	− 5
9. IRELAND, NORTH ...	75	15	*	*	*	*	1,371	+ 11	237	−108	114	−10	19·06	+0·48	3·7	−0·3	29	− 2
10. IRELAND, SOUTH ...	79	13	*	*	*	*	1,623	+ 30	167	− 92	133	+22	22·62	+2·75	3·7	−0·7	29	− 6
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2,028	+258	44	− 65	117	+ 7	18·05	+2·93	5·2	−0·5	40	− 4

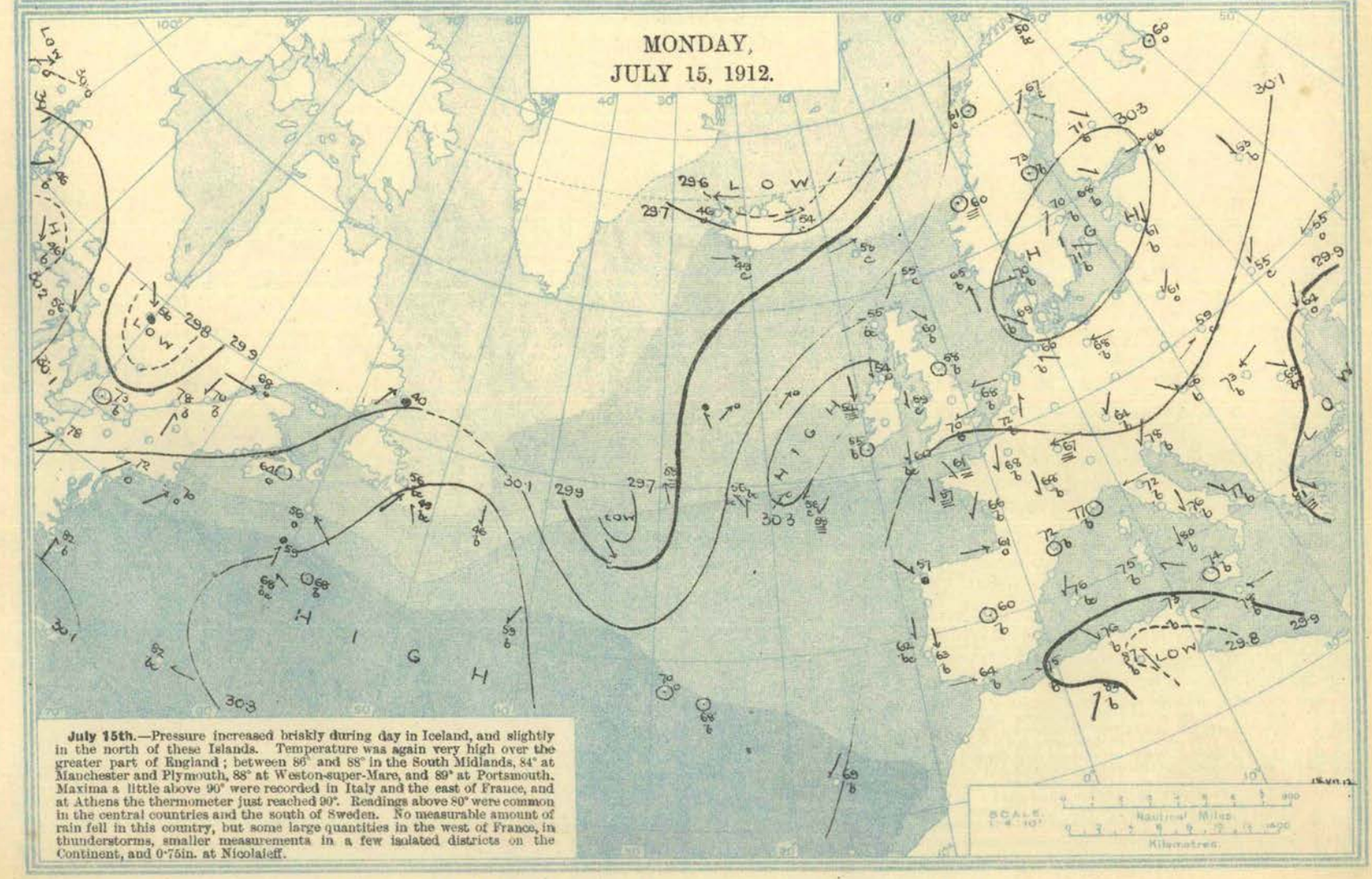
M.O., July 24, 1912.

NOTES ON TABLE IV.

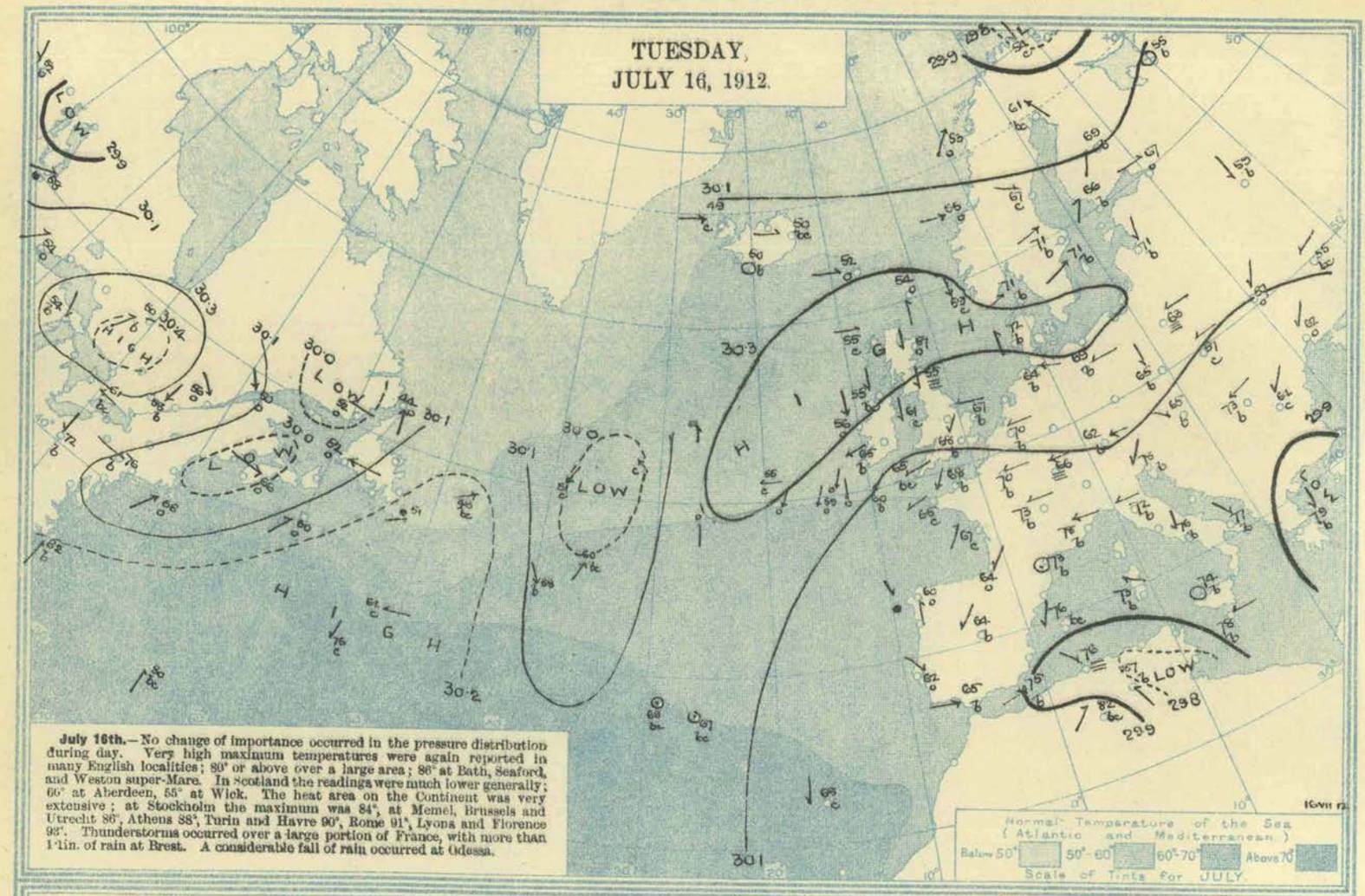
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6 the district averages for temperature are for 20 years only



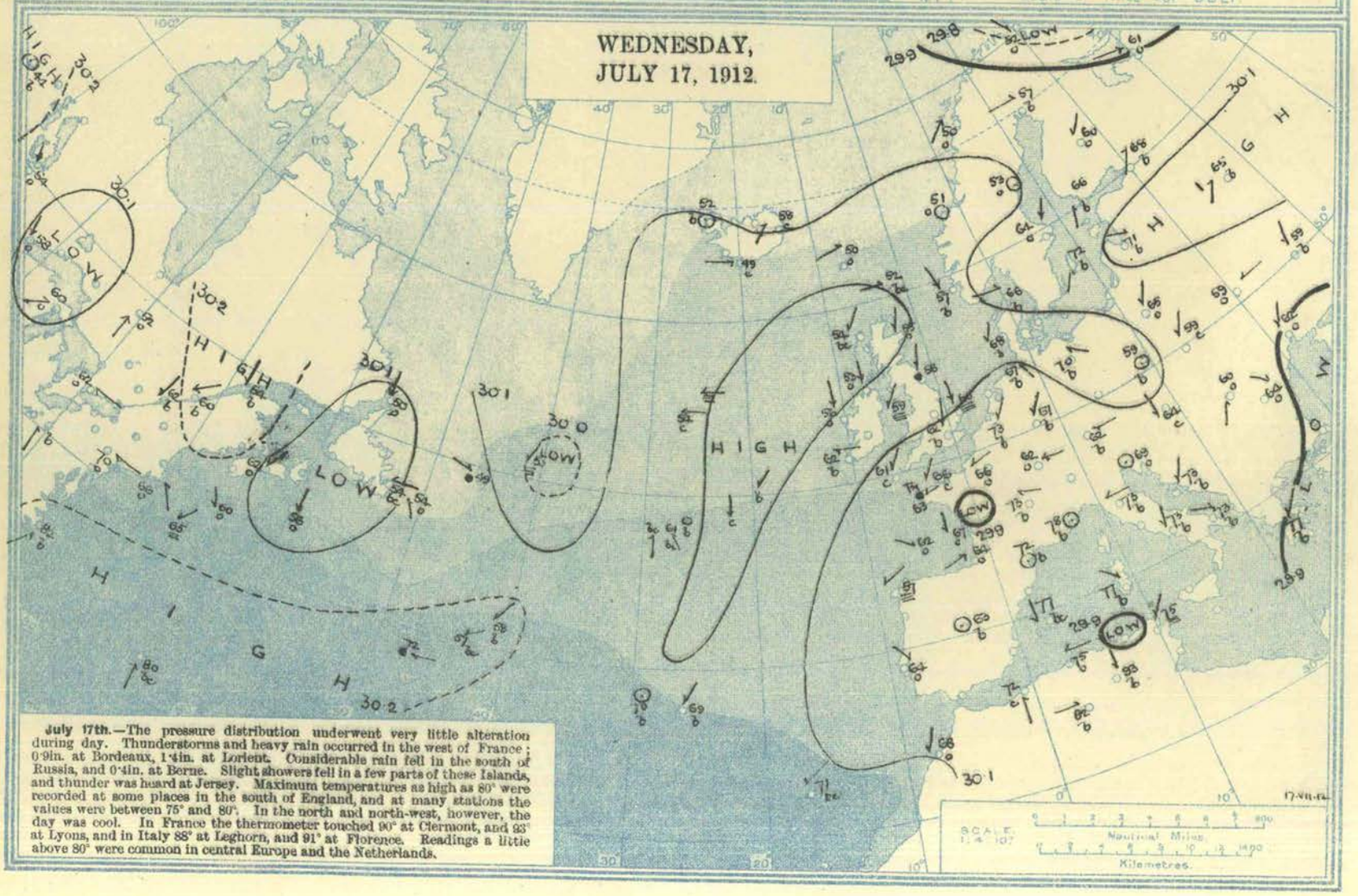
July 14th.—Very little modification occurred in the general distribution of pressure. The maximum temperature was 85° or above in London and in some other English localities, but only 65° at Liverpool, and 64° at North Shields and Newquay; at Clacton-on-Sea the night minimum was not lower than 65°. At Athens, Florence and Dunkirk the thermometer touched 91°, at Rome and Brussels 89°, while readings above 85° were numerous. In central Algeria the record was 108°. In the United Kingdom the weather was practically rainless, but moderate falls were experienced in some Austrian localities, 0·5in. at Kieff, and 1·3in. at Bilbao. Thunder was heard at a few English stations, and a thunderstorm occurred at Lyons.



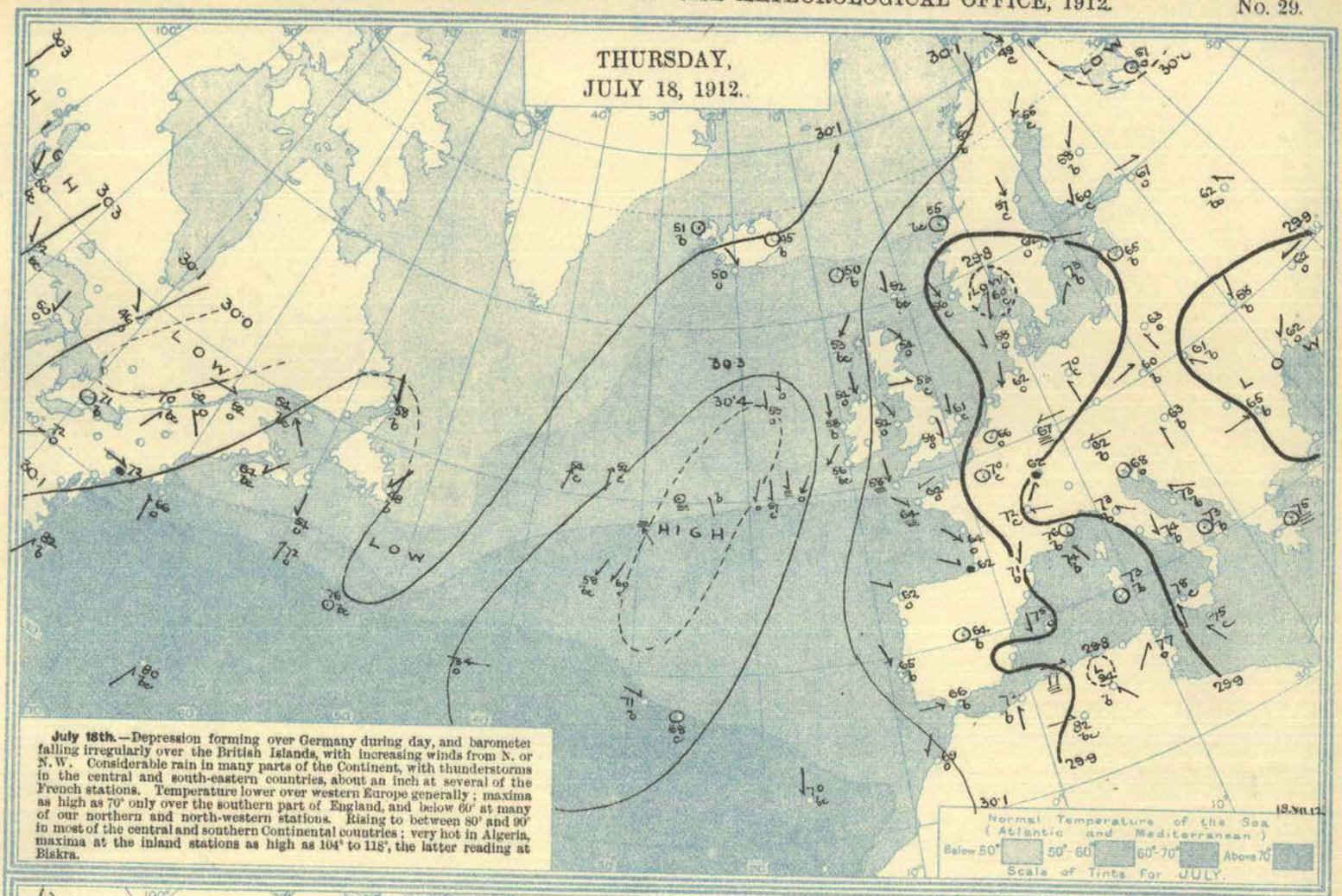
July 15th.—Pressure increased briskly during day in Iceland, and slightly in the north of these Islands. Temperature was again very high over the greater part of England; between 86° and 88° in the South Midlands, 84° at Manchester and Plymouth, 88° at Weston-super-Mare, and 89° at Portsmouth. Maxima a little above 90° were recorded in Italy and the east of France, and at Athens the thermometer just reached 90°. Readings above 80° were common in the central countries and the south of Sweden. No measurable amount of rain fell in this country, but some large quantities in the west of France, in thunderstorms, smaller measurements in a few isolated districts on the Continent, and 0·75in. at Nicolaieff.



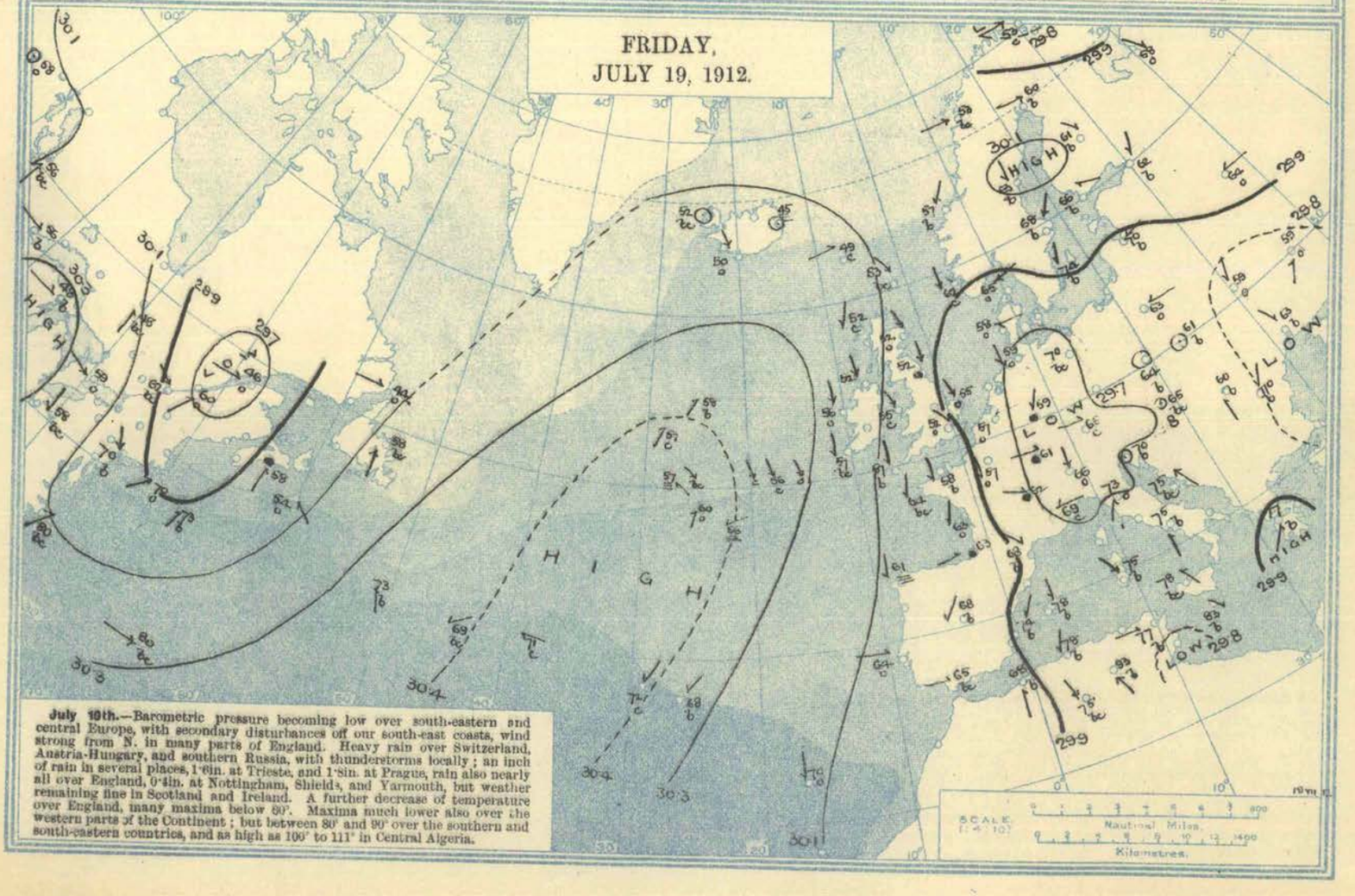
July 16th.—No change of importance occurred in the pressure distribution during day. Very high maximum temperatures were again reported in many English localities; 80° or above over a large area; 86° at Bath, Seaford, and Weston super-Mare. In Scotland the readings were much lower generally; 66° at Aberdeen, 55° at Wick. The heat area on the Continent was very extensive; at Stockholm the maximum was 84°, at Memel, Brussels and Utrecht 86°, Athens 88°, Turin and Havre 90°, Rome 91°, Lyons and Florence 93°. Thunderstorms occurred over a large portion of France, with more than 1·1in. of rain at Brest. A considerable fall of rain occurred at Odessa.



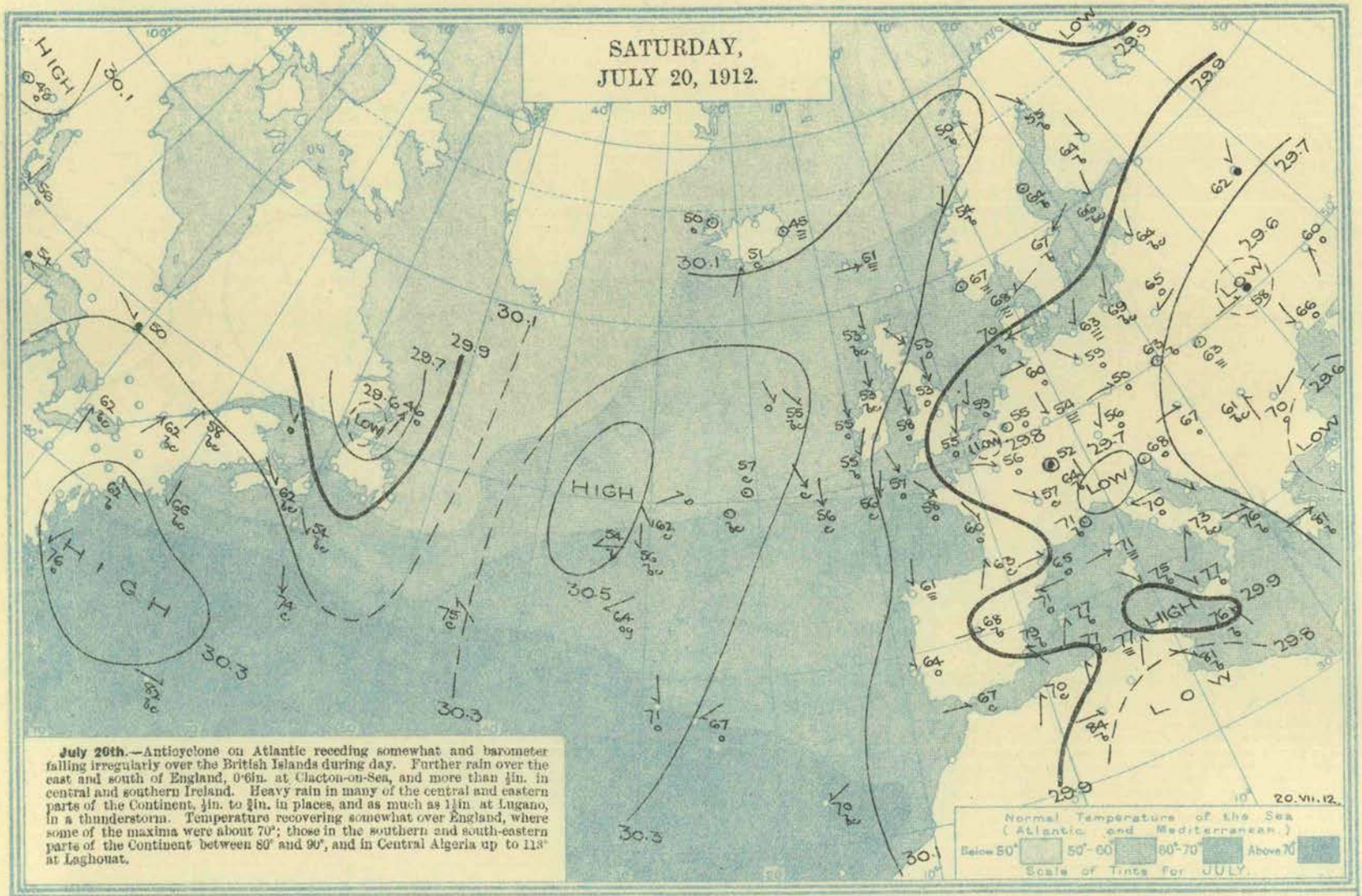
July 17th.—The pressure distribution underwent very little alteration during day. Thunderstorms and heavy rain occurred in the west of France; 0·9in. at Bordeaux, 1·4in. at Lorient. Considerable rain fell in the south of Russia, and 0·4in. at Berne. Slight showers fell in a few parts of these Islands, and thunder was heard at Jersey. Maximum temperatures as high as 80° were recorded at some places in the south of England, and at many stations the values were between 75° and 80°. In the north and north-west, however, the day was cool. In France the thermometer touched 90° at Clermont, and 93° at Lyons, and in Italy 88° at Leghorn, and 91° at Florence. Readings a little above 80° were common in central Europe and the Netherlands.



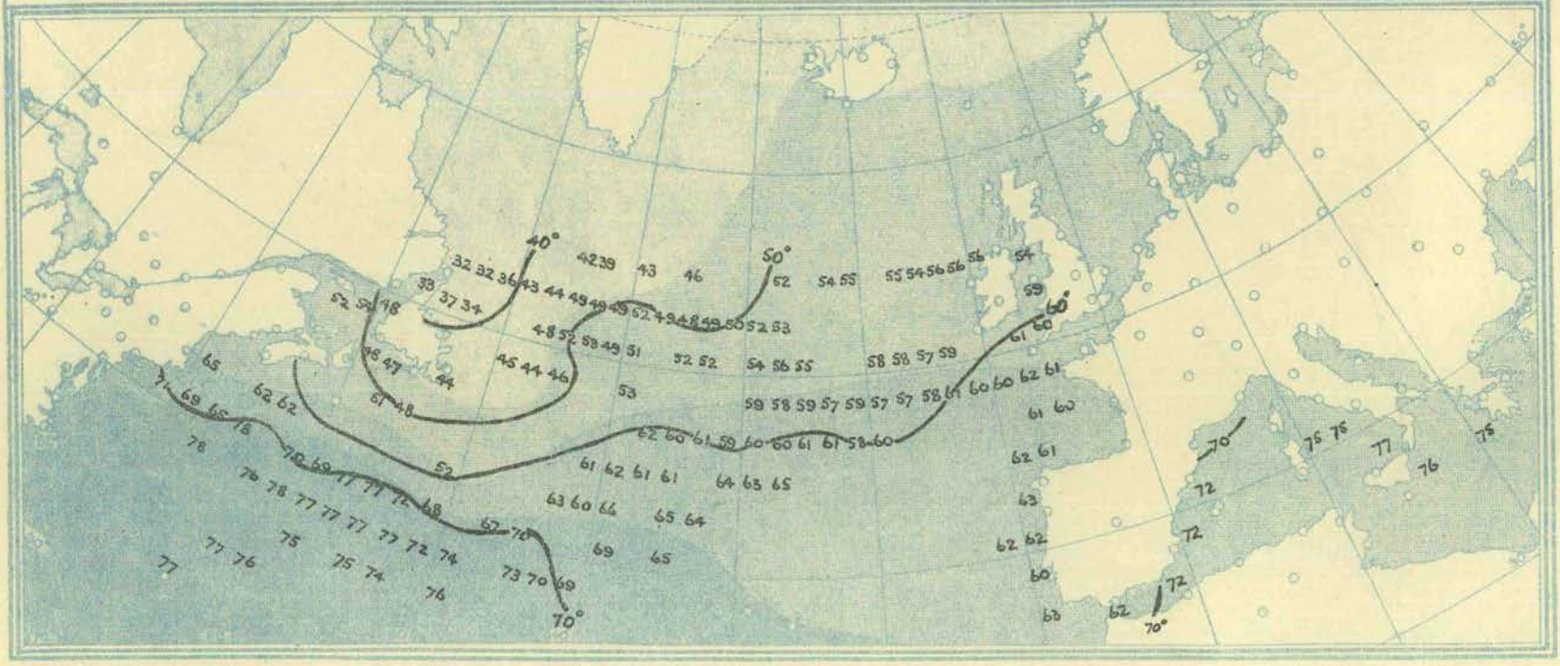
July 18th.—Depression forming over Germany during day, and barometer falling irregularly over the British Islands, with increasing winds from N. or N.W. Considerable rain in many parts of the Continent, with thunderstorms in the central and south-eastern countries, about an inch at several of the French stations. Temperature lower over western Europe generally; maxima as high as 70° only over the southern part of England, and below 60° at many of our northern and north-western stations. Rising to between 80° and 90° in most of the central and southern Continental countries; very hot in Algeria, maxima at the inland stations as high as 104° to 118°, the latter reading at Biskra.



July 19th.—Barometric pressure becoming low over south-eastern and central Europe, with secondary disturbances off our south-east coasts, wind strong from N. in many parts of England. Heavy rain over Switzerland, Austria-Hungary, and southern Russia, with thunderstorms locally; an inch of rain in several places, 1·6in. at Trieste, and 1·8in. at Prague, rain also nearly all over England, 0·4in. at Nottingham, Shields, and Yarmouth, but weather remaining fine in Scotland and Ireland. A further decrease of temperature over England, many maxima below 60°. Maxima much lower also over the western parts of the Continent; but between 80° and 90° over the southern and south-eastern countries, and as high as 100° to 111° in Central Algeria.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 20TH JULY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* } No. 30. THIRTIETH WEEK, SUNDAY, JULY 21ST, TO SATURDAY, JULY 27TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. Fair and dry over Scotland during the first few days of the period, and over the south and east of England generally after the middle of the week, but with these exceptions the conditions over the United Kingdom were mostly unsettled and rainy. Thunderstorms occurred in all districts, and generally they were of daily occurrence.

Temperature was slightly above the average over the greater part of England and in Scotland N. and W., below it elsewhere. The largest excess, 2°½, was in England E., and the largest deficit, 1°¼, in Scotland E. The highest readings occurred on the 24th over the southern half of the country, 79° at Kew and Margate, and on various dates later in the week in other districts. The lowest of the minima were registered on several days; the actual lowest were 31° at Balmoral, 35° at Glencarron, and 37° at Wick. The mean temperature of the soil at depths of 1 and 4 feet was mostly above the average, but the difference was slight.

Mean Temperature of the Sea was rather above the average generally, slightly below it at a few northern and north-western stations. In nearly all cases the water was cooler than in the corresponding week of last year.

Rainfall. Deficient in England S.E. and Scotland W. and N. but in all other districts in excess, that in Ireland N. being double, and in Ireland S. nearly 4 times the average. The largest total for the week was nearly 4 in. at Cahir, and the smallest less than 0·1 in. at Wisley. Roche's Point received nearly 5½ times the normal quantity for the week. Measurements of over an inch were recorded at a large number of stations in Ireland and the western districts of England on the 27th.

Bright Sunshine. Everywhere below the average. The percentage of the possible duration ranged from 10 in Ireland N. and 12 in England N.E. to 31 in England E. and 33 in England S.E. where daily amounts of 6 to 7 hours were recorded.

Barometer and Wind. At the commencement of the week these Islands were situated between a very large anticyclone occupying the North Atlantic and several depressions which were lying over the central portion of Europe. On Monday, however, one of the latter systems moved westward and took up a position off our south-western coasts. During the week, this depression remained almost stationary, and the country was wholly under its influence, while at the same time it increased in depth, and extended across the Bay region. Pressure meanwhile remained consistently high over Iceland and the Azores. Under these conditions, the wind, which was at first generally Northerly, and light or moderate in force, gradually veered to East and South-East over the whole country, and in the later days of the week blew from South or South-West in the southern districts, but exhibited no great increase in velocity.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 119.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Moderate	Unusual	Moderate	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Moderate	Heavy	Heavy	Very Heavy	Moderate	Moderate	Heavy	Heavy	Heavy	Very heavy	Heavy
	Sunshine ...	Moderate	Very scanty	Very scanty	Moderate	Very scanty	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 8 weeks from June 2nd, 1912.	Warmth ...	0 * 2	0 * 3	2 * 2	4 * 1	3 * 2	3 * 2	2 * 1	2 * 2	1 * 3	0 * 3	0 * 4	2 * 2
	Rainfall ...	1 * 2	2 * 1	6 * 0	4 * 1	4 * 2	4 * 3	5 * 2	5 * 2	4 * 1	4 * 2	5 * 2	3 * 2
	Sunshine ...	1 * 3	0 * 7	0 * 6	2 * 2	0 * 4	0 * 3	1 * 3	1 * 5	1 * 5	1 * 4	1 * 6	0 * 4

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(25697—24.) Wt. 173—814. 450. 8/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p *Baltasound* .. S	*60*	*24, 25, 26*	*48*	*21st*	*58·5*	*50·4*	*54·2*	—	*85*	*0*	•	•	55·8		•	•	*4*	*0·27*	—	*3·4*	—	*20*	—	*Baltasound.*
a Lerwick	62	26th	50	21, 24	58·4	51·1	54·5	+ 2·0	88	0	•	•	•	•	•	•	3	0·43	—	2·3	- 2·0	14	-12	Deerness.
a, Islands .. a Stornoway	64	26, 27	48	24th	61·1	50·7	55·5	+ 1·0	95	0	•	•	•	•	•	•	3	0·69	- 0·06	5·2	+ 0·7	31	+ 4	Stornoway.
a *Castlebay, Barra Isd.*	*65*	*27th*	*51*	*21st*	*62·3*	*53·4*	*57·5*	+ *0·8*	*109*	*0*	•	•	•	•	•	•	*2*	*0·29*	—	*5·7*	—	*34*	—	*Castlebay.*
a Wick	60	26th	37	24th	56·0	46·6	51·0	- 3·6	63	0	•	•	•	•	•	•	5	0·61	- 0·02	•	•	•	•	
p Strathpeffer ..	69	27th	43	23rd	65·0	51·6	57·8	+ 1·7	111	0	•	•	•	•	•	•	4	0·78	+ 0·15	3·6	- 0·5	22	- 3	Strathpeffer.
b, Mainland. p Glencarron ..	69	27th	35	25th	64·4	47·2	55·2	+ 1·1	92	0	•	•	•	•	•	•	3	0·73	- 0·61	•	•	•	•	
p Fort Augustus..	67	26th	39	23rd	62·4	50·7	56·1	- 0·2	99	0	•	•	•	•	•	•	4	1·00	+ 0·30	3·8	+ 0·7	23	+ 4	Fort Augustus.
p Fort William ..	71	21st	46	27th	67·4	50·0	58·1	+ 1·6	113	0	•	•	•	•	•	•	3	0·31	- 0·94	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle..	69	27th	45	21st	62·0	50·6	55·9	- 0·8	97	0	0	35	57·6	-0·7	54·8	+0·1	—	—	—	2·1	—	13	—	Crathes S.
a Nairn	68	24th	42	23rd	62·9	48·0	54·9	- 1·7	90	0	•	•	•	•	•	•	4	1·25	+ 0·45	*1·0*	—	*6*	—	*Gordon Castle.*
a Aberdeen ..	67	27th	46	23rd	61·7	50·6	55·8	- 0·7	97	0	•	•	•	•	•	•	4	0·76	+ 0·19	2·7	—	16	—	Nairn.
a Balmoral ..	73	22, 23	31	23rd	68·6	43·7	55·3	+ 1·2	93	0	1	29	•	•	•	•	3	0·67	+ 0·03	1·8	- 3·3	11	-20	Aberdeen.
p Crieff	69	26th	47	23rd	64·7	49·9	56·8	- 1·0	104	0	•	•	•	•	•	•	4	1·32	+ 0·62	•	•	•	•	Balmoral.
a Leith	72	26th	46	23rd	62·3	50·9	56·2	- 2·2	99	0	•	•	•	•	•	•	4	0·56	- 0·19	2·0	•	12	•	Balruddery.
p West Linton ..	67	26th	39	23rd	62·0	46·4	53·7	- 1·7	82	0	0	34	•	•	•	•	5	0·70	+ 0·06	•	•	•	•	
p Marchmont ..	70	26th	47	22nd	61·3	50·4	55·5	- 1·0	95	0	0	46	57·4	-0·7	•	•	4	0·70	—	*3·4*	—	*21*	—	*West Linton.*
																	5	0·82	+ 0·05	2·2	- 3·1	14	-19	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	72	26th	49	27th	62·3	51·7	56·6	- 0·6	102	0	0	46	57·6	-0·8	55·6	+0·4	4	1·11	+ 0·46	2·0	—	12	—	Cockle Park.
a Shields	71	26th	48	23rd	60·7	51·6	55·8	- 1·9	97	0	•	•	•	•	•	•	4	0·90	+ 0·30	•	•	•	•	*Newcastle.*
a Durham	70	26th	48	23rd	62·0	51·6	56·4	- 2·3	101	0	0	48	•	•	•	•	5	1·28	+ 0·62	1·4	- 3·9	9	-24	Durham.
a, North .. p Rounton	73	25th	48	23rd	65·0	52·0	58·1	+ 0·5	113	0	0	47	58·8	•	•	•	5	0·59	- 0·05	•	•	•	•	Rounton.
a *West Witton*	*70*	*26th*	*48*	*23rd*	*63·0*	*51·0*	*56·6*	—	*102*	*0*	0	48	58·5	•	55·4	•	*6*	*1·54*	—	•	•	•	•	*West Witton.*
p Scarborough	71	26th	53	23rd	62·0	54·8	58·2	- 0·5	113	0	•	•	•	•	58·3†	•	5	0·63	+ 0·06	1·3	—	8	—	Scarborough.
p York	74	26th	52	23rd	67·3	55·6	61·0	+ 1·1	133	0	•	•	61·1	+2·1	58·0	+1·9	5	0·75	+ 0·17	1·1	- 4·5	7	-28	York.
a Spurn Head	73	26th	52	23, 24, 27	63·7	54·0	58·5	- 1·1	116	0	0	51	60·4	+0·1	56·1	+1·0	6	0·46	+ 0·06	*1·4*	—	*9*	—	*Hull.*
b, South .. a Lincoln	75	24, 25	52	23rd	68·8	55·7	61·8	+ 1·1	139	0	•	•	60·9	-0·1	58·3	+1·9	7	0·94	+ 0·43	•	•	•	•	Lincoln.
a Fulbeck	74	26th	51	23rd	68·0	55·3	61·2	+ 0·8	134	0	0	51	62·3	-1·7	57·9	0·0	7	2·50	+ 1·97	2·3	—	14	—	Rauceby.
											•	•	•	•	•	•	—	—	—	3·4	—	21	—	Skegness.
3. ENGLAND, E.											0	47	64·9	+1·5	61·3	+2·4	—	—	—	*6·1*	—	*39*	—	*Lowestoft.*
p Cromer	77	25th	53	21st	69·9	56·3	62·6	+ 2·2	144	0	•	•	•	•	•	•	7	1·25	—	5·0	—	32	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	—	•	—	Hillington.
a, North .. a Yarmouth	72	25, 26	54	21st	68·7	57·7	62·8	+ 2·3	146	0	•	•	62·3	-2·8	63·0	+2·1	4	1·00	+ 0·45	6·4	—	41	—	Yarmouth.
a Norwich (Southwell)	76	24th	51	21st	71·9	56·3	63·6	+ 3·0	151	0	0	43	65·4	•	•	•	5	1·19	—	*5·5*	—	*35*	—	*Norwich.*
p Geldeston	77	24th	50	21st	71·9	56·3	63·6	+ 3·2	151	0	•	•	•	•	•	•	7	1·26	+ 0·74	6·3	- 0·5	40	- 3	Geldeston.
p Cambridge	78	24th	51	26th	73·7	55·6	64·0	+ 2·3	154	0	0	44	64·1	+0·9	61·1	+1·8	6	0·25	- 0·28	3·6	- 3·1	23	-20	Cambridge.
a *Felixstowe*	*72*	*24th*	*53*	*21st*	*69·4*	*57·9*	*63·3*	+ *1·6*	*149*	*0*	•	•	•	•	•	•	*3*	*0·33*	—	*7·0*	—	*45*	—	*Felixstowe.*
a Clacton-on-Sea ..	72	24th	55	21, 22	68·6	57·9	62·9	+ 1·2	146	0	0	46	62·9	+2·0	60·0	+0·4	3	0·29	—	5·9	—	38	—	Clacton.
b, South .. a Rothamsted	74	24, 25	51	22nd	70·7	54·6	62·1	+ 1·7	141	0	•	•	•	•	•	•	5	1·51	+ 0·95	4·2	- 2·8	27	-18	Rothamsted.
a *Shoeburyness*	*74*	*26, 27*	*53*	*21, 23*	*70·7*	*57·0*	*63·4*	+ *0·2*	*150*	*0*	0	50	66·7	+0·4	•	•	*3*	*0·10*	- *0·29*	*5·9*	—	*38*	—	*Southend.*
p Tottenham	76	24th	53	21, 26	72·0	56·6	63·8	+ 0·5	153	0	0	48	•	•	62·6	+2·2	4	0·34	—	3·6	—	23	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	70	25th	49	23rd	63·7	51·9	57·4	- 0·1	108	0	0	50	59·3	-1·9	56·0	+0·6	—	—	—	*1·2*	—	*8*	—	*Huddersfield.*
a Bawtry	76	25th	51	23rd	68·1	54·4	60·8	+ 0·6	132	0	0	48	57·7	+0·5	56·4	+1·1	6	2·03	+ 1·48	1·7	—	11	—	Harrogate.
p *Buxton*	*69*	*25th*	*48*	*23, 24*	*63·4*	*51·1*	*56·8*	- *0·1*	*104*	*0*	0	47	60·7	•	58·2	•	6	1·71	+ 1·18	1·5	- 3·7	9	-24	Worksop.
a East .. a Nottingham ..	75	25th	52	23rd	68·6	55·0	61·3	+ 0·7	135	0	0	46	59·1	0·0	55·1	+1·3	*6*	*2·06*	+ *1·15*	*1·8*	—	*11*	—	*Buxton.*
a Birmingham, Edgbsn.	72	27th	52	23rd	66·7	55·4	60·7	+ 0·8	131	0	0	48	61·1	-0·5	59·4	+1·8	7	1·61	+ 1·08	1·9	—	12	—	Nottingham.
a Raunds	77	25th	53	20th	71·7	56·3	63·5	+ 2·3	151	0	0	47	56·7	-0·1	53·6	+0·9	5	1·34	+ 0·82	2·3	—	15	—	Birmingham.
a Oxford	74	27th	53	26th	70·7	55·4	62·5	+ 1·0	144	0	0	49	63·1	•	58·1	•	5	2·07	—	•	•	•	•	Raunds.
											0	—	•	•	•	•	5	1·23	+ 0·70	3·4	- 3·1	22	-20	Oxford.
											0	48	58·5	- 0·8	55·9	+1·4	—	—	—	1·7	—	11	—	Sheffield.
a Cheadle	71	25th	50	22nd	65·9	54·3	59·7	+ 1·5	124	0	0	46	•	•	•	•	4	1·56	+ 0·90	•	•	•	•	Cheadle.
p Shrewsbury	72	27th	52	23, 26	67·6	54·1	60·4	+ 0·9	129	0	0	47	•	•	•	•	4	1·05	—	•	•	•	•	Shrewsbury.
b, West .. a Hereford	70	24, 25, 26	52	21, 24	68·4	54·1	60·8	+ 0·4	132	0	0	45	•	•	•	•	6	0·98	+ 0·47	•	•	•	•	Hereford.
a Cirencester	70	24, 27	50	22, 26	68·1	53·3	60·2	+ 0·8	127	0	0	49	61·3	•	58·1	•	5	1·18	+ 0·58	3·2	- 3·2	21	-20	Cirencester.
a Bath	74	24th	50	22nd	70·6	54·4	61·9	+ 1·0	139	0	•	•	64·2	+0·2	61·6	+1·1	6	1·76	+ 1·16	3·8	—	24	—	Bath.
5. ENGLAND, S.E.																								
											0	39	•	•	61·8	+2·0	—	—	—	•	•	•	•	Canterbury.
p Kew	78	24th	52	21st	73·4	56·3	64·3	+ 2·3	156	0	0	42	64·0	+1·5	59·3	+1·5	2	0·15	- 0·37	4·9	- 1·8	31	-11	Kew.
a Marlborough	71	24th	44	22nd	68·1	52·4	59·7	+ 0·1	124	0	0	41	•	•	•	•	5	0·65	+ 0·11	2·7	- 3·4	17	-22	Marlborough.
a Margate	79	24th	52	21, 23	73·0	56·4	64·1	+ 2·1	155	0	•	•	63·3	+0·9	60·0	+1·4	4	0·35	- 0·10	5·0	- 1·7	32	-11	Margate.
a Wisley, Surrey ..	77	24th	48	22nd	72·6	54·0	62·7	+ 0·2	145	0	0	41	64·7	+1·7	60·7	+1·4	2	0·06	—	5·4	—	35	—	Wisley
a Swarraton	74	24th	46	22nd	70·0	53·0	60·9	+ 1·0	132	0	0	44	66·1	+1·8	61·3	+1·6	2	0·32	- 0·22	5·5	—	36	—	Worthing.
a Tunbridge Wells ..	78	24th	50	21st	73·1	54·7	63·3	+ 2·5	149	0	0	45	64·4	+0·6	•	•	2	0·05	- 0·45	6·6	- 0·1	42	- 1	Tunbridge Wells.
a Dungeness	72	24th	49	21st	68·6	56·7	62·2	+ 0·9	141	0	•	•	•	•	•	•	2	0·13	- 0·27	6·9	—	44	—	Littlestone.
p Hastings..	75	24th	53	21st	69·1	57·0	62·6	+ 1·4	144	0	0	47	66·2	•	62·1	•	3	0·39	- 0·11	*6·3*	- *1·4*	*41*	- *9*	*Hastings.*
p Southampton	73	24th	53	22nd	69·0	57·0	62·6	- 0·4	144	0	0	50	•	•	•	•	4	0·74	+ 0·19	4·5	- 2·7	29	-17	Southampton.
a Ventnor	72	24th	56	21st	68·4	58·1	62·9	+ 0·7	146	0	•	•	•	•	•	•	2	0·81	+ 0·34	4·5	- 2·6	29	-17	Ventnor.
											0	49	67·0	+1·7	62·1	+1·1	—	—	—	*5·3*	—	*34*	—	*Portsmouth.*
											•	•	64·5	•	61·5	•	—	—	—	6·0	- 1·6	39	-10	Eastbourne.
											•	•	63·8	•	62·3	•	—	—	—	*4·4*	—	*29*	—	*Bournemouth.*
LONDON.											0	42	•	•	63·0	•	—	—	—	*4·9*	—	*32*	—	*Brighton.*
a *Westminster*	77	*24th*	*54*	*21, 22*	*72·7*	*57·7*	*64·7*	+ *2·5*	*159*	*0*	0	47	•	•	•	•	*4*	*0·23*	- *0·28*	*4·3*	- *1·5*	*28*	- *10*	*Westminster.*
a *Greenwich*	*82*	*24th*	*49*	*22nd*	*77·1*	*54·4*	*65·0*	+ *1·7*	*161*	*0*	0	39	•	•	•	•	*2*	*0·16*	- *0·37*	*4·9*	- *2·7*	*31*	- *17*	*Greenwich.*
a *Hampstead*	*74*	*24th*	*53*	*21st*	*70·7*	*56·1*	*62·9*	—	*146*	*0*	0	38	•	•	•	•	*4*	*0·56*	—	*3·7*	—	*24*	—	*Hampstead.*
a *Camden Square* ..	*81*	*24th*	*50*	*21st*	*75·9*	*55·3*	*64·9*	—	*160*	*0*	0	48	•	•	•	•	*4*	*0·44*	—	*3·9*	—	*25*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	70	25th	50	27th	68·0	53·3	60·1	+ 2·6	127	0	•	•	•	•	•	•	2	0·38	- 0·58	•	•	•	•	
p Glasgow	67	25, 26, 27	50	23rd	64·6	52·7	58·2	+ 0·9	113	0	0	43	•	•	•	•	4	0·85	+ 0·10	3·2	- 1·3	20	- 8	Glasgow.
p Rothesay .. S	70	25, 26	51	23, 24, 27	66·1	52·4	58·8	+ 1·5	118	0	•	•	•	•	56·0	+1·0	5	0·54	- 0·43	•	•	•	•	
a Kilmarnock	72	25th	45	23rd	67·7	50·7	58·6	+ 1·0	116	0	•	•	•	•	•	•	4	0·68	—	*5·1*	—	*31*	—	*Kilmarnock.*
a Colmonell	72	21st	45	22nd	68·0	50·1	58·4	+ 1·2	115	0	0	41	•	•	•	•	5	0·39	- 0·40	•	•	•	•	
p Dumfries	70	25th	49	22nd	66·4	52·0	58·7	+ 0·1	117	0	0	44	62·4	•	60·0	•	4	1·06	+ 0·27	*2·8*	—	*17*	—	*Dumfries.*
p Cally, Gatehouse	72	25th	47	22nd	66·6	51·4	58·5	+ 0·9	116	0	•	•	•	•	•	•	3	0·63	- 0·27	•	•	•	•	
b I. OF MAN.																								
p Douglas	67	21, 25	53	22, 23, 27	63·9	54·3	58·8	+ 1·5	118	0	0	49	•	•	•	•	5	0·99	+ 0·24	2·2	- 4·0	14	-25	Douglas.
											0	47	59·5	+0·7	56·3	+1·5	—	—	—	*1·7*	—	*11*	—	*Burnley.*
											•	•	•	•	•	•	—	—	—	•	•	•	•	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	69	25, 27	46	23rd	66·1	50·7	57·9	+ 1·1	111	0	0	43	60·3	•	56·1	•	5	1·16	+ 0·26	2·1	—	13	—	Aspatria.
p Newton Rigg	69	25th	44	22, 23	65·7	49·6	57·1	+ 0·4	106	0	0	38	60·4	+0·4	56·2	+0·6	5	1·14	+ 0·42	1·7	- 3·8	11	-24	Newton Rigg.
p Stonyhurst	71	25th	50	23rd	64·7	54·1	59·0	+ 1·1	119	0	0	48	•	•	•	•	5	1·46	+ 0·53	0·9	- 4·6	6	-29	Stonyhurst.
p Blackpool	73	25th	50	23rd	68·0	54·0	60·5	+ 1·3	130	0	0	45	61·3	•	56·6	•	6	1·44	+ 0·77	2·7	- 3·1	17	-20	Blackpool.
p *Manchester (Whit. Pk.)*	*73*	*24, 25*	*53*	*23rd*	*67·2*	*56·5*	*61·5*	—	*137*	*0*	0	52	•	•	•	•	*7*	*1·63*	—	*2·0*	—	*13*	—	*Whit Park.*
a Liverpool (Bidston) ..	74	25th	52	23rd	67·0	55·3	60·7	+ 0·8	131	0	•	•	•	•	•	•	7	1·56	+ 0·94	*1·7*	—	*11*	—	*Liverpool.*
a Hawarden Bridge ..	73	25th	53	23, 26	67·3	55·6	61·0	+ 0·8	133	0	0	49	62·5	-1·3	60·7	0·0	6	1·24	+ 0·71	*2·2*	- *4·1*	*14*	- *26*	*Southport.*
											0	50	62·1	+1·3	59·9	+2·1	—	—	—	*1·3*	—	*8*	—	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	70	24th	54	23rd	67·1	56·4	61·4	+ 1·5	136	0	•	•	•	•	•	•	7	1·88	+ 1·34	1·9	- 3·9	12	-25	Llandudno.
a Holyhead	72	24th	54	23, 25	66·6	55·4	60·6	+ 2·1	130	0	0	50	•	•	•	•	5	0·86	+ 0·26	3·0	—	18	—	Aberdovey.
p Bettws-y-Coed ..	70	25, 26	50	25, 26	67·1	53·3	59·7	+ 0·6	124	0	0	50	59·3	+1·0	56·0	+1·5	6	2·63	—	2·1	—	13	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date†	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In. *	In. *	Hr. *	Hr. —	% 20	% —	Aberystwyth.
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	70	24th	48	25th	66·9	51·7	58·8	+ 0·7	118	0	0	42	59·7	+1·6	55·0	+0·8	6	1·76	—	3·0	—	19	—	Llangammarch
a Pembroke	65	24th	53	21st	62·3	56·3	59·1	+ 0·7	120	0	*	*	*	*	*	*	6	1·08	+ 0·50	3·0	- 3·5	19	-23	Pembroke.[Wells
p Cardiff	70	24, 27	53	22, 25	68·1	54·6	60·9	- 0·1	132	0	0	46	62·9	+2·3	59·6	+1·2	4	1·20	+ 0·42	*3·3*	—	*21*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	73	24th	54	22nd	70·1	58·0	63·6	+ 1·7	151	0	0	52	*	*	*	*	5	1·55	+ 0·88	*3·6*	—	*23*	—	*Clifton.*
a Shaftesbury	70	21st	52	23, 26	67·0	53·9	60·0	+ 0·2	126	0	*	*	61·9	*	60·0	*	5	1·41	+ 0·80	*	*	*	*	Shaftesbury.
a Arlington	67	22, 25, 27	51	23rd	66·3	53·6	59·5	+ 1·2	123	0	*	*	62·3	*	*	*	4	0·88	- 0·08	2·7	- 4·2	18	-27	Newquay.
a Cullompton	72	27th	52	22nd	69·0	55·7	61·9	+ 1·4	139	0	0	49	63·4	*	*	*	7	0·80	+ 0·14	2·6	- 3·4	17	-22	Cullompton.
a Portland	67	24th	55	21st	65·1	58·3	61·5	+ 1·0	137	0	*	*	*	*	*	*	3	0·89	—	*4·6*	—	*30*	—	*Weymouth.*
p Plymouth	68	24, 25	57	23, 27	66·1	56·1	61·8	+ 0·6	139	0	0	54	64·3	-1·6	*	*	6	0·74	+ 0·08	3·8	- 2·9	25	-19	Plymouth.
p Falmouth	68	21st	57	21, 24, 27	65·1	57·4	61·0	+ 0·8	133	0	*	*	*	*	*	*	6	1·60	+ 0·93	2·9	- 4·4	19	-28	Falmouth.
9. IRELAND, N.																								
a Malin Head	65	25th	50	26th	60·7	51·4	55·7	- 0·7	96	0	*	*	*	*	*	*	5	0·71	+ 0·03	*	*	*	*	
a, West .. *a* Blacksod Point ..	66	24, 25, 26	50	27th	63·6	53·3	58·1	+ 0·4	113	0	*	*	*	*	*	*	6	2·43	+ 1·67	*	*	*	*	
p Markree Castle ..	68	24th	49	27th	64·1	51·3	57·3	+ 0·4	107	0	0	43	60·3	*	56·1	*	6	1·37	+ 0·57	0·9	- 3·2	6	-20	Markree Castle.
a Birr Castle	68	24th	48	21st	65·7	53·0	58·9	+ 0·3	118	0	*	*	*	*	*	*	7	2·30	+ 1·60	*2·4*	- *2·0*	*15*	- *13*	*Birr Castle.*
b, East .. *p* Armagh	66	25th	49	25th	64·0	51·9	57·5	- 0·4	109	0	0	45	61·7	+0·1	57·5	-0·1	5	1·28	+ 0·55	2·4	- 2·0	15	-13	Armagh.
a Donaghadee	66	25th	52	23, 24	60·7	53·3	56·7	- 1·1	103	0	*	*	*	*	*	*	3	1·45	+ 0·78	*	*	*	*	
10. IRELAND, S.											0	46	60·8	-0·2	57·8	0·0	—	—	—	*	*	*	*	Trinity Coll.
p Dublin, City	67	27th	55	26th	64·0	56·1	59·8	- 0·5	125	0	0	44	*	*	*	*	—	—	—	1·5	- 3·8	9	-24	Phœnix Park.
a, East .. *a* Kilkenny	68	22nd	53	26th	64·7	54·9	59·5	+ 0·9	123	0	0	51	*	*	*	*	7	1·54	+ 0·94	*	*	*	*	Dublin City.
a Waterford	69	22nd	54	21, 25, 26	64·9	55·0	59·6	- 0·1	123	0	*	*	*	*	*	*	7	2·73	+ 2·08	*	*	*	*	
											*	*	*	*	*	*	7	2·97	+ 2·19	*	*	*	*	
a Birr Castle	68	24th	48	21st	65·7	53·0	58·9	+ 0·3	118	0	*	*	*	*	*	*	7	2·30	+ 1·60	2·4	- 2·0	15	-13	Birr Castle.
a Foynes	69	24th	50	26th	63·6	53·4	58·1	- 0·7	113	0	*	*	*	*	*	*	7	3·50	+ 2·75	*	*	*	*	
b, West .. *a* Cahir	67	22nd	54	21, 24, 27	64·0	54·7	59·0	+ 0·1	119	0	*	*	*	*	*	*	7	3·94	—	*	*	*	*	
a Killarney	70	24th	50	21st	65·4	54·0	59·3	+ 0·8	121	0	*	*	*	*	*	*	7	1·99	+ 1·17	*	*	*	*	
a Valencia	68	24th	49	27th	64·1	53·9	58·6	- 0·1	116	0	*	*	*	*	*	*	7	1·40	+ 0·47	1·9	- 3·0	12	-19	Valencia.
a Roche's Point	64	26th	53	21st	61·7	55·9	58·6	- 0·8	116	0	*	*	*	*	*	*	7	3·71	+ 3·02	2·8	—	18	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	66	22, 26	55	21, 25, 27	64·1	55·6	59·6	- 1·1	123	0	*	*	*	*	*	*	4	0·70	+ 0·16	2·2	- 4·9	14	-32	Scilly.
a Jersey, St. Aubins ..	71	27th	55	21, 23	67·0	57·3	61·8	- 0·7	139	0	*	*	*	*	*	*	6	1·70	+ 1·20	3·4	- 4·6	22	-30	St. Heliers.
a Guernsey (Villa Carey)	72	24th	56	23rd	67·7	57·9	62·5	+ 1·2	144	0	0	54	65·7	+1·9	62·6	+2·1	3	1·68	+ 1·17	4·5	- 3·8	29	-25	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·6 hrs. 36 %; Ramsgate, 6·6 hrs. 42 %; Rhyl, 1·8 hrs. 11 %; Salcombe, 3·6 hrs. 23 %; Tenby, 3·2 hrs. (−3·4) 21 % (− 22 %); Torquay, 3·4 hrs. (−3·6) 23 % (−24 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, July 27th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from. Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	53	52	52·4	0·0	SCOTLAND, W. ..	Lamlash	63	52	58·2	+2·4
	Kirkwall	?64	?60	?62·0	?+7·0		Ballantrae	60	55	58·1	+2·5
	Wick	53	53	53·0	+0·5	ENGLAND, N.W. ..	Port Erin	57	54	55·0	-0·5
SCOTLAND, E. ..	Cromarty	59	56	57·8	+1·7		Newquay	60	60	60·0	-1·2
	Pennan Bay	58	54	55·9	-0·3	ENGLAND, S.W. ..	Scilly	60	58	58·9	—
	Aberdeen, Cove Bay	54	53	53·5	-0·9		Plymouth‡	62	60	61·0	+0·7
ENGLAND, N.E. ..	Burnmouth, Berwick	55	54	54·1	0·0		Salcombe	62	59	60·4	+2·3
	Scarborough	58	54	55·5	-0·8	IRELAND, N.W. ..	Sheephaven	61	58	59·5	+1·1
ENGLAND, E. ..	Shipwash Lightship	—	—	—	—		Teelin	60	57	58·8	-0·4
ENGLAND, S.E. ..	Margate‡	66	65	65·5	+2·2	IRELAND, S.W. ..	Cleggan	59	56	57·9	+0·6
	Eastbourne‡	66	64	65·6	+2·5		Seafield	65	57	60·3	-0·5
						IRELAND, E.	.. .. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTIETH WEEK—July 21st to July 27th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	71	35	62·1	49·7	55·5	+ 0·4	95	+ 3	0	0	4	0	0·65	−0·14	3·7	−0·2	22	− 1
Eastern.																		
1. SCOTLAND, EAST ...	73	31	63·2	48·8	55·5	− 1·3	95	− 9	0	0	4	0	0·85	+0·19	2·2	−2·8	13	−17
2. ENGLAND, N.E.	75	48	64·4	53·6	58·6	− 0·1	116	− 1	0	0	5	+ 1	1·02	+0·36	1·9	−3·7	12	−23
3. ENGLAND, EAST ...	78	50	70·8	56·4	63·1	+ 2·4	148	+ 17	0	0	5	+ 1	0·84	+0·27	5·0	−1·3	32	− 8
4. MIDLAND COUNTIES ...	77	49	68·2	54·4	60·8	+ 0·8	132	+ 6	0	0	5	+ 1	1·50	+0·88	2·4	−3·1	16	−20
5. ENGLAND, S.E.	79	44	70·5	55·6	62·5	+ 0·9	144	+ 7	0	0	3	0	0·37	−0·19	5·2	−1·2	33	− 8
Western.																		
6. SCOTLAND, WEST ...	72	45	66·4	52·1	58·8	+ 1·4	118	+ 10	0	0	4	0	0·69	−0·09	2·7	−2·6	17	−16
7. ENGLAND, N.W.	74	44	66·6	53·8	59·8	+ 0·8	125	+ 6	0	0	6	+ 2	1·49	+0·71	2·1	−3·4	13	−21
8. ENGLAND, S.W.	73	48	66·6	55·8	60·8	+ 0·8	132	+ 6	0	0	5	+ 2	1·19	+0·43	3·0	−2·9	19	−19
9. IRELAND, NORTH ...	68	48	63·1	52·4	57·4	− 0·1	108	0	0	0	5	+ 1	1·59	+0·81	1·7	−2·6	10	−16
10. IRELAND, SOUTH ...	70	48	64·2	54·5	59·0	− 0·2	119	− 2	0	0	7	+ 4	2·68	+1·94	2·2	−2·6	14	−17
11. ENGLISH CHANNEL ...	72	55	66·3	56·9	61·3	− 0·3	135	− 2	0	0	4	+ 1	1·36	+0·80	3·4	−4·0	22	−27

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 8 Weeks, June 2nd to July 27th, 1912.

0. SCOTLAND, NORTH ...	74	35	*	*	*	*	652	− 14	0	− 2	31	− 1	4·88	−0·87	3·7	−1·0	21	− 6
Eastern.																		
1. SCOTLAND, EAST ...	87	31	*	*	*	*	711	− 42	0	− 1	33	+ 5	5·10	+0·33	3·1	−2·5	18	−15
2. ENGLAND, N.E	86	42	*	*	*	*	834	− 8	0	0	39	+14	7·49	+3·64	3·9	−2·4	24	−14
3. ENGLAND, EAST ...	91	40	*	*	*	*	1027	+ 79	0	0	30	+ 6	4·71	+0·75	6·3	−0·5	38	− 4
4. MIDLAND COUNTIES ...	88	38	*	*	*	*	923	− 7	0	0	33	+ 9	6·44	+2·37	4·5	−1·7	28	−10
5. ENGLAND, S.E.	88	36	*	*	*	*	1008	+ 14	0	0	26	+ 4	4·55	+0·83	6·3	−0·7	39	− 4
Western.																		
6. SCOTLAND, WEST ...	83	37	*	*	*	*	804	0	0	0	34	+ 5	7·35	+1·45	4·7	−1·3	28	− 7
7. ENGLAND, N.W.	84	38	*	*	*	*	872	− 5	0	0	35	+ 8	6·57	+1·78	4·7	−1·5	29	− 9
8. ENGLAND, S.W.	88	35	*	*	*	*	910	− 15	0	0	35	+ 9	7·15	+2·38	5·1	−1·6	32	−10
9. IRELAND, NORTH ...	75	35	*	*	*	*	734	− 74	0	0	36	+ 3	7·44	+2·04	4·6	−0·4	28	− 3
10 IRELAND, SOUTH ...	79	33	*	*	*	*	821	− 74	0	0	39	+11	9·40	+4·31	5·0	−0·6	30	− 4
11. ENGLISH CHANNEL ...	82	45	*	*	*	*	966	− 22	0	0	33	+ 7	5·91	+2·15	6·4	−1·6	41	−10

THE YEAR.—Aggregates, &c., for the Period of 30 Weeks, December 31st, 1911, to July 27th, 1912.

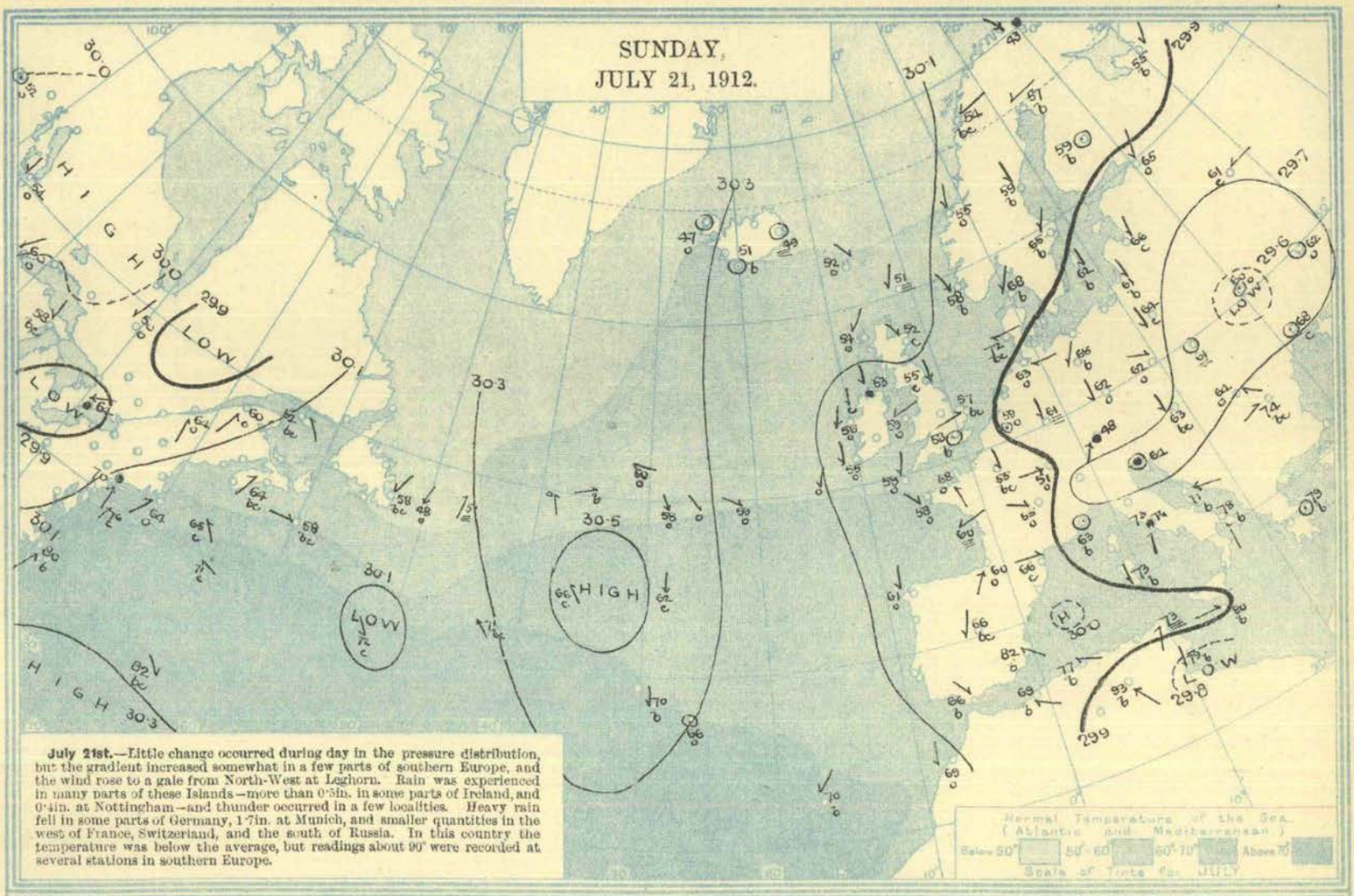
0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1,140	+ 26	427	−130	135	− 1	25·10	−1·49	3·4	−0·2	26	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1,317	+ 33	519	−101	123	+11	15·66	−0·37	3·5	−0·7	26	− 6
2. ENGLAND, N.E.	86	10	*	*	*	*	1,541	+147	373	−102	118	+16	17·15	+4·82	3·6	−0·9	28	− 7
3. ENGLAND, EAST ...	91	14	*	*	*	*	1,908	+269	274	−247	107	+ 8	12·93	+0·65	4·5	−0·3	35	− 2
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	1,775	+126	373	−160	109	+11	18·42	+4·64	3·7	−0·6	29	− 5
5. ENGLAND, S.E.	88	13	*	*	*	*	1,929	+168	218	−163	100	+ 7	15·33	+2·00	4·7	−0·1	36	− 2
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1,454	+ 58	329	− 96	124	+ 6	24·36	+0·64	3·9	−0·4	29	− 4
7. ENGLAND, N.W.	84	7	*	*	*	*	1,610	+109	298	− 88	116	+ 8	18·83	+1·75	4·0	−0·4	31	− 3
8. ENGLAND, S.W.	88	9	*	*	*	*	1,785	+ 95	189	−112	125	+19	23·43	+4·58	4·0	−0·8	31	− 6
9. IRELAND, NORTH ...	75	15	*	*	*	*	1,479	+ 11	237	−108	119	− 9	20·65	+1·29	3·7	−0·3	28	− 3
10. IRELAND, SOUTH ...	79	13	*	*	*	*	1,742	+ 28	167	− 92	140	+26	25·30	+4·69	3·7	−0·8	28	− 6
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2,163	+256	44	− 65	121	+ 8	19·41	+3·73	5·1	−0·6	40	− 5

M.O., July 24, 1912.

NOTES ON TABLE IV.

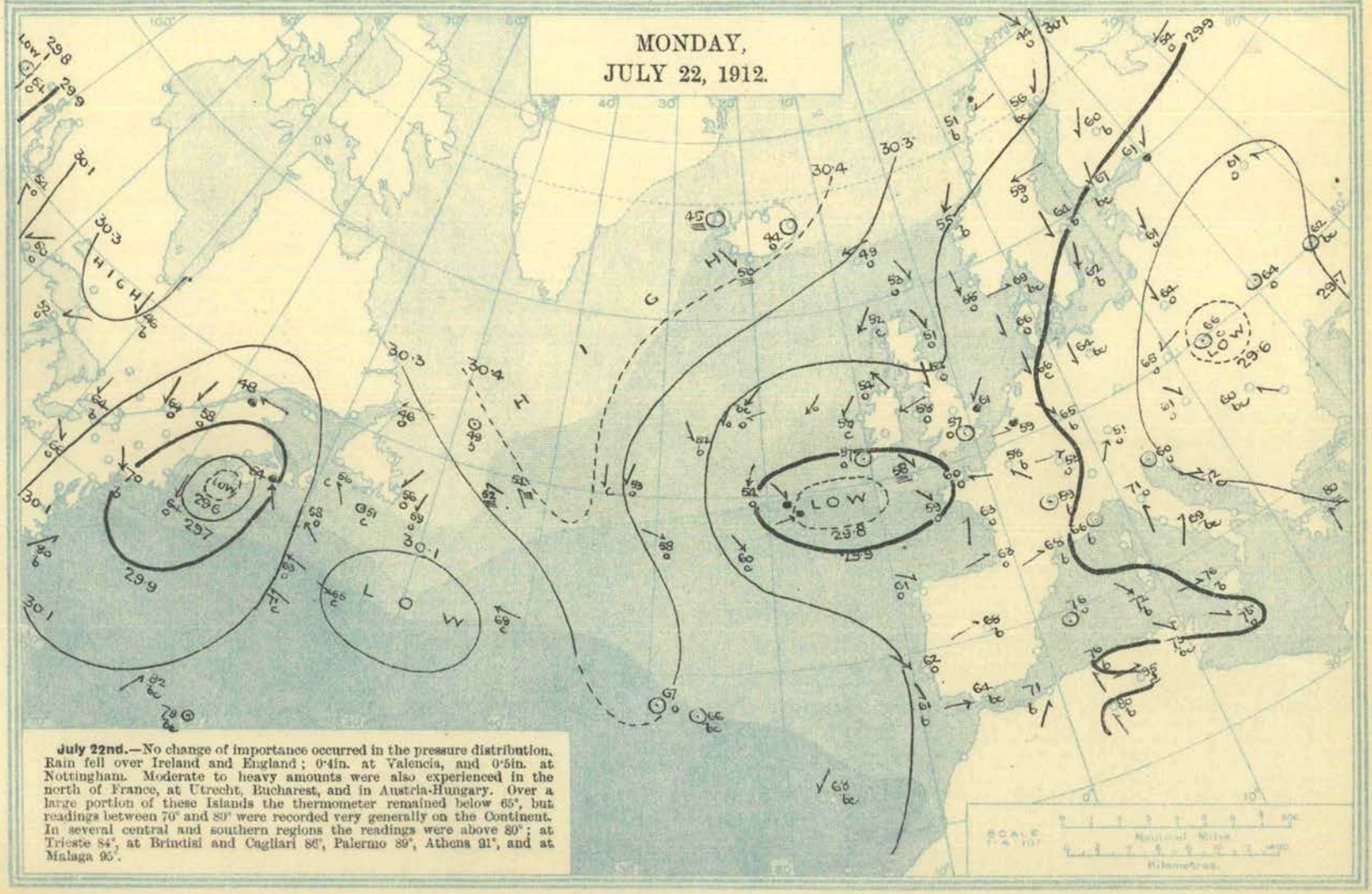
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only

SUNDAY, JULY 21, 1912.

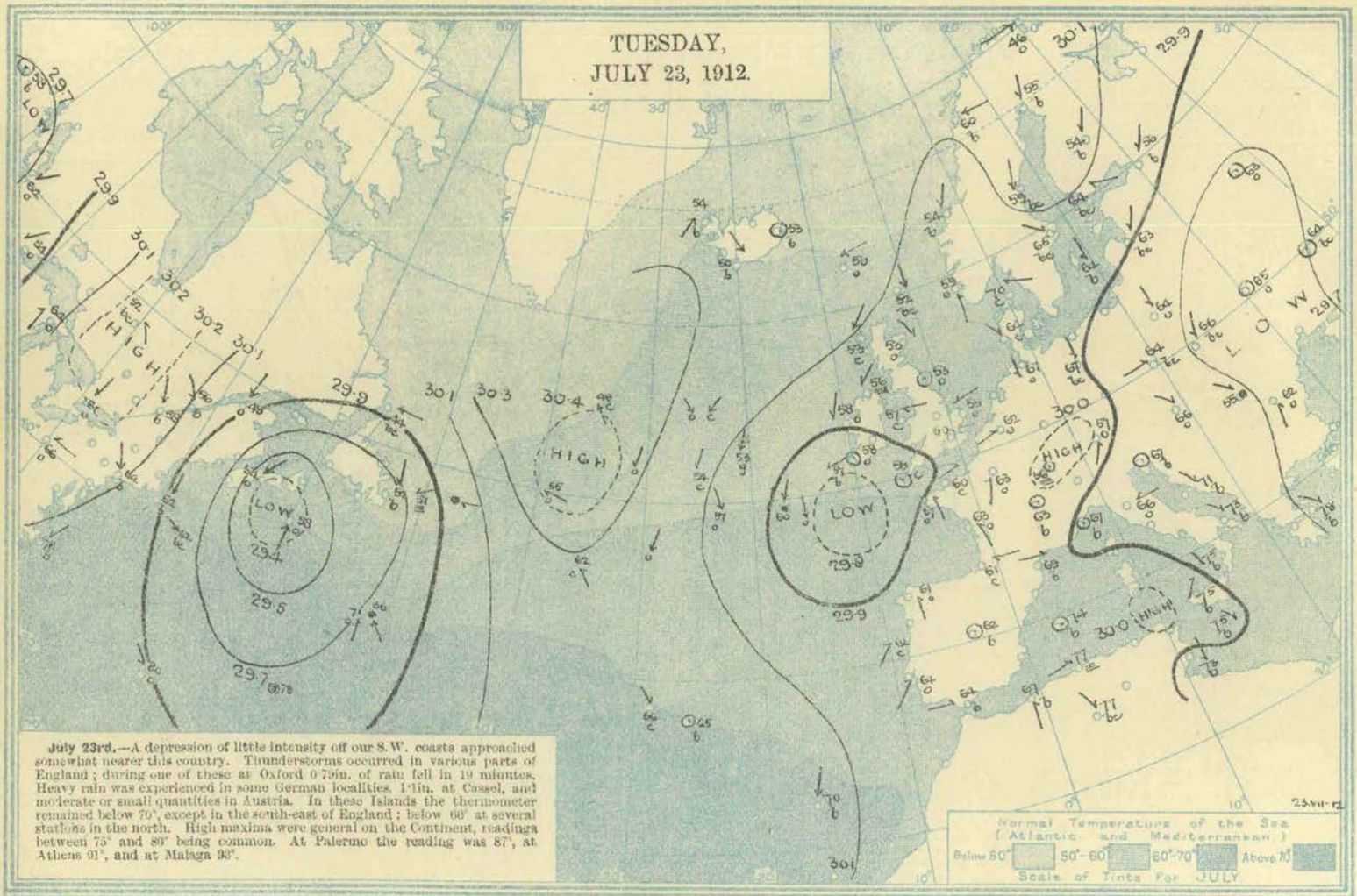


July 21st.—Little change occurred during day in the pressure distribution, but the gradient increased somewhat in a few parts of southern Europe, and the wind rose to a gale from North-West at Leghorn. Rain was experienced in many parts of these Islands—more than 0·5in. in some parts of Ireland, and 0·4in. at Nottingham—and thunder occurred in a few localities. Heavy rain fell in some parts of Germany, 1·7in. at Munich, and smaller quantities in the west of France, Switzerland, and the south of Russia. In this country the temperature was below the average, but readings about 90° were recorded at several stations in southern Europe.

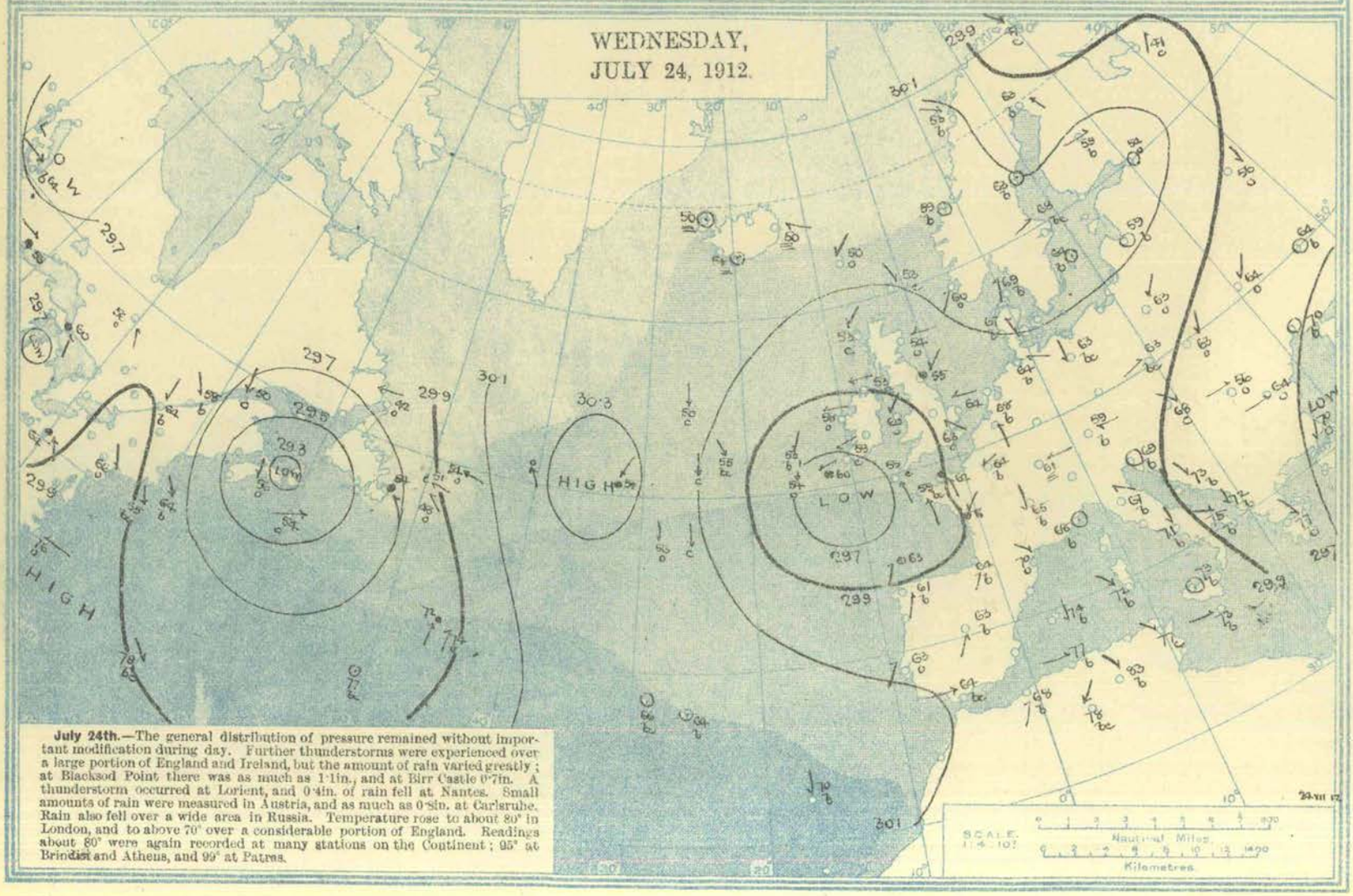
MONDAY, JULY 22, 1912.



July 22nd.—No change of importance occurred in the pressure distribution. Rain fell over Ireland and England; 0·4in. at Valencia, and 0·5in. at Nottingham. Moderate to heavy amounts were also experienced in the north of France, at Utrecht, Bucharest, and in Austria-Hungary. Over a large portion of these Islands the thermometer remained below 65°, but readings between 70° and 80° were recorded very generally on the Continent. In several central and southern regions the readings were above 80°; at Trieste 84°, at Brindisi and Cagliari 86°, Palermo 89°, Athens 91°, and at Malaga 95°.

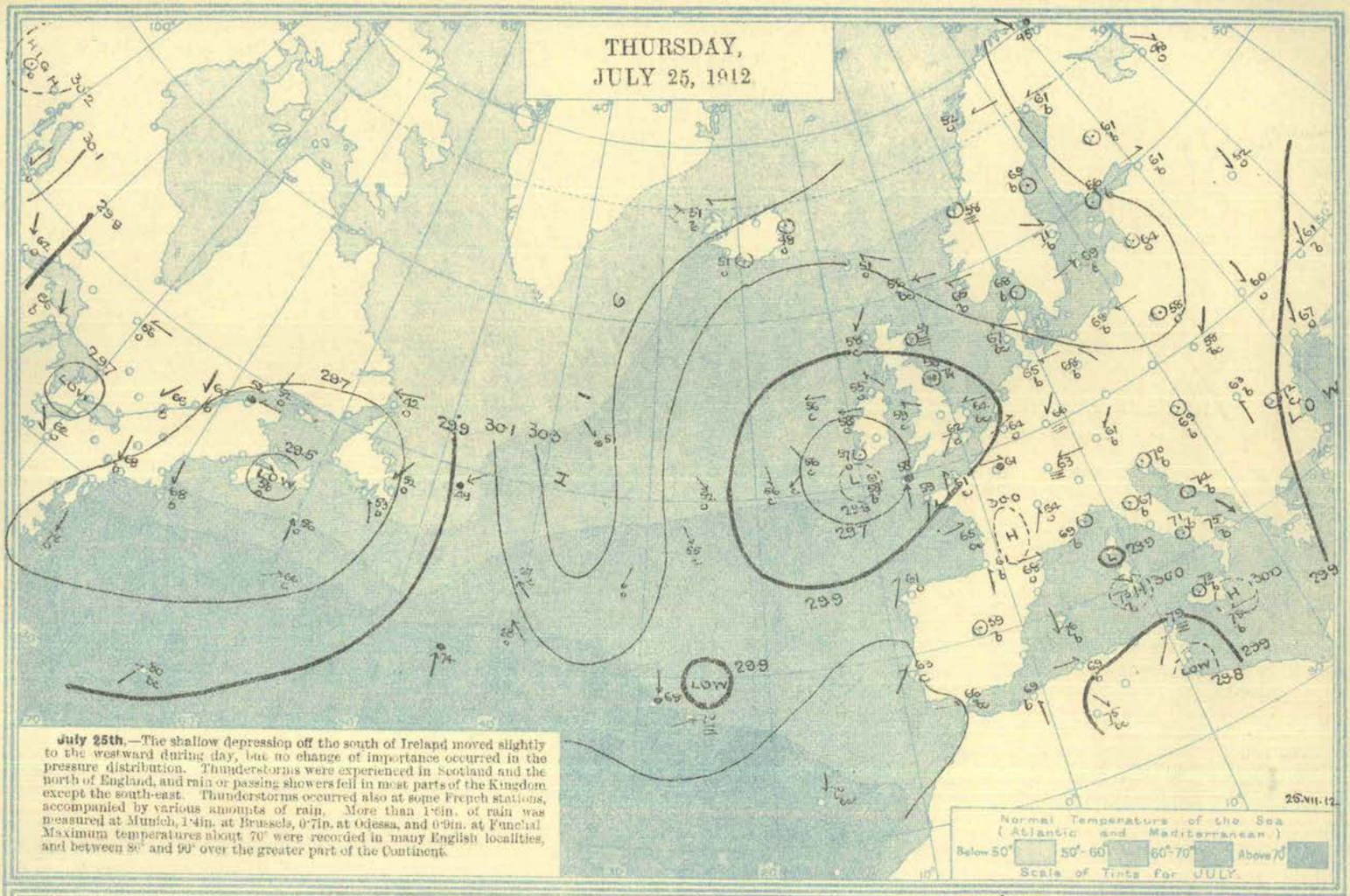


July 23rd.—A depression of little intensity off our S.W. coasts approached somewhat nearer this country. Thunderstorms occurred in various parts of England; during one of these at Oxford 0·75in. of rain fell in 19 minutes. Heavy rain was experienced in some German localities, 1·1in. at Cassel, and moderate or small quantities in Austria. In these Islands the thermometer remained below 70°, except in the south-east of England; below 60° at several stations in the north. High maxima were general on the Continent, readings between 75° and 80° being common. At Palermo the reading was 87°, at Athens 91°, and at Malaga 93°.



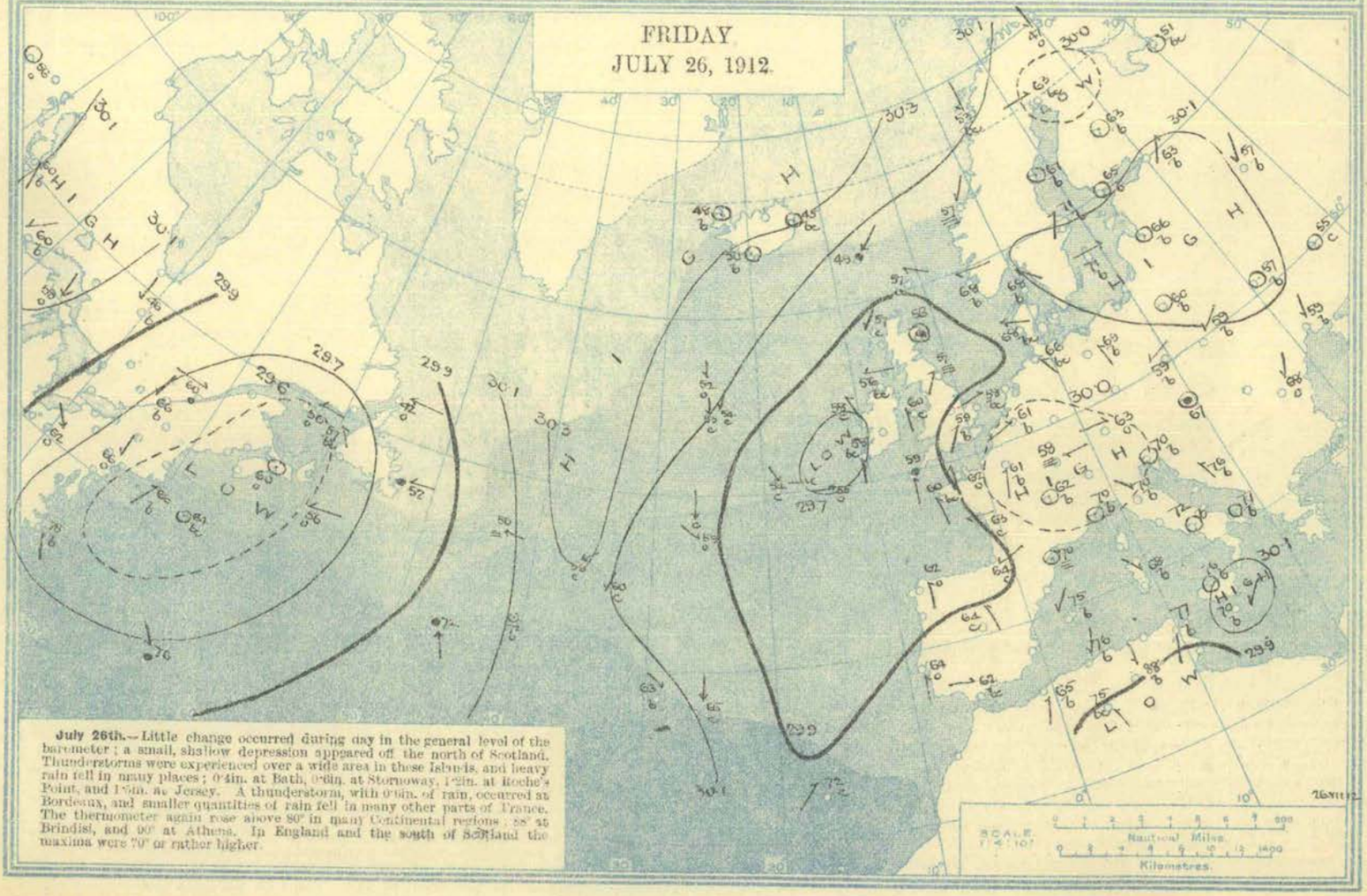
July 24th.—The general distribution of pressure remained without important modification during day. Further thunderstorms were experienced over a large portion of England and Ireland, but the amount of rain varied greatly; at Blacksod Point there was as much as 1·1in., and at Birr Castle 0·7in. A thunderstorm occurred at Lorient, and 0·4in. of rain fell at Nantes. Small amounts of rain were measured in Austria, and as much as 0·8in. at Carlsruhe. Rain also fell over a wide area in Russia. Temperature rose to about 80° in London, and to above 70° over a considerable portion of England. Readings about 80° were again recorded at many stations on the Continent; 95° at Brindisi and Athens, and 99° at Patras.

THURSDAY, JULY 25, 1912.

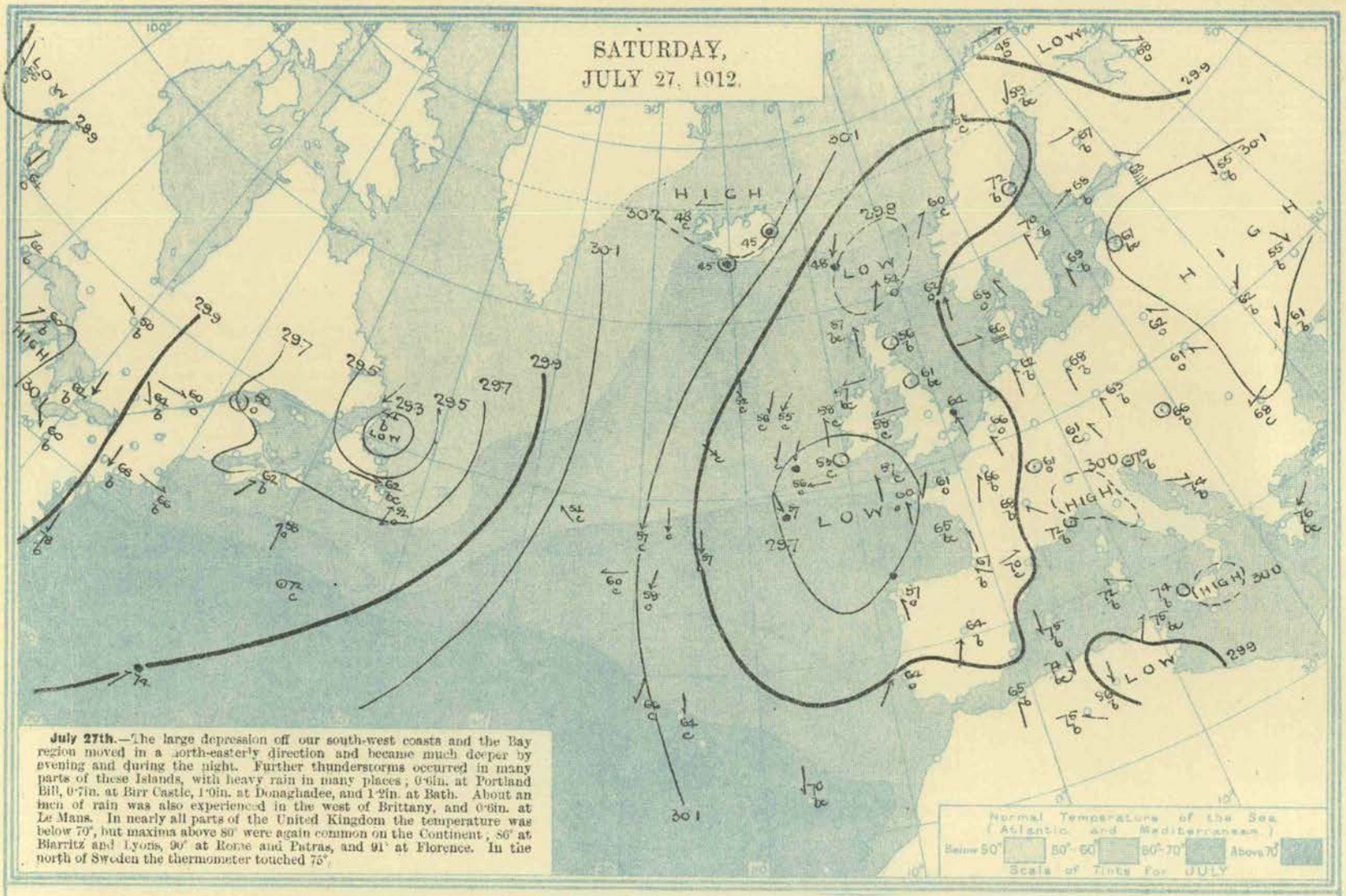


July 25th.—The shallow depression off the south of Ireland moved slightly to the westward during day, but no change of importance occurred in the pressure distribution. Thunderstorms were experienced in Scotland and the north of England, and rain or passing showers fell in most parts of the Kingdom except the south-east. Thunderstorms occurred also at some French stations, accompanied by various amounts of rain. More than 1·6in. of rain was measured at Munich, 1·4in. at Brussels, 0·7in. at Odessa, and 0·9in. at Funchal. Maximum temperatures about 70° were recorded in many English localities, and between 80° and 90° over the greater part of the Continent.

FRIDAY, JULY 26, 1912.

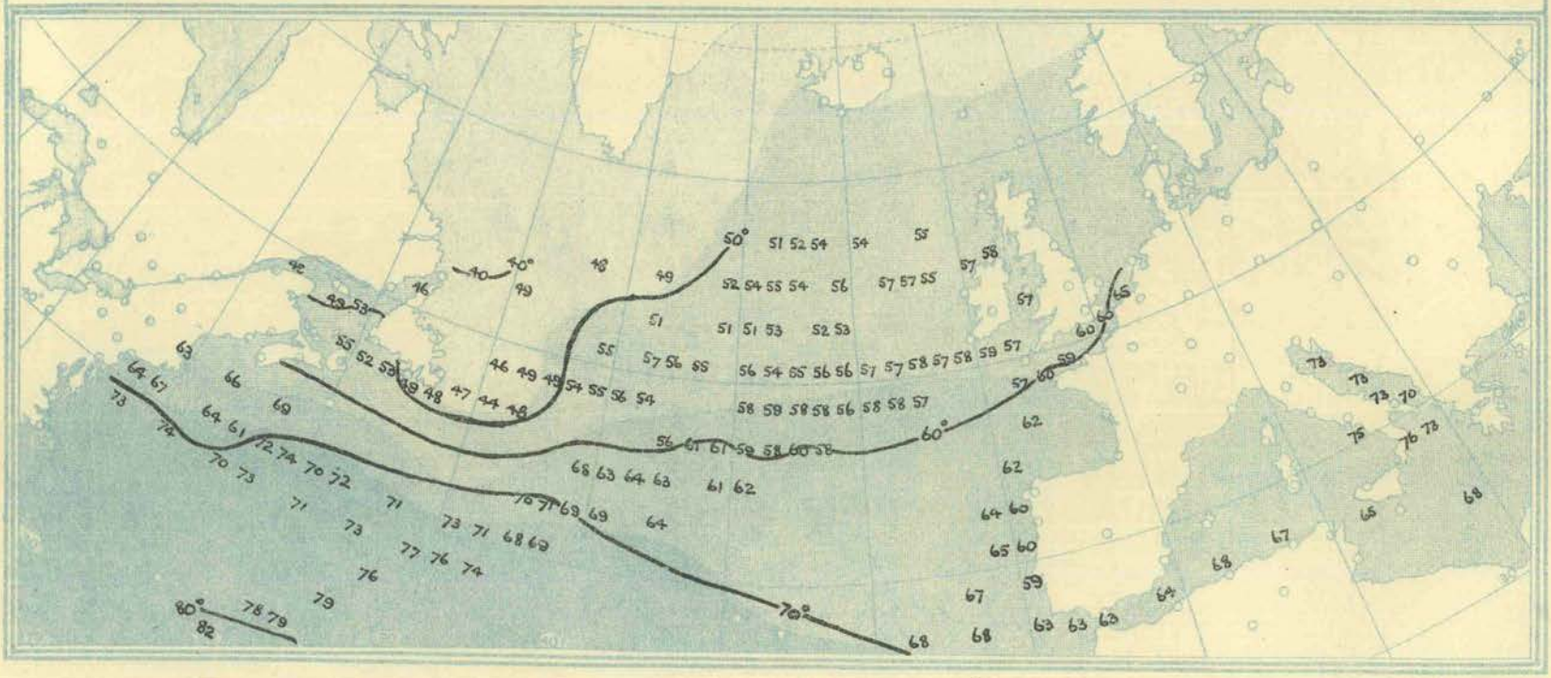


July 26th.—Little change occurred during day in the general level of the barometer; a small, shallow depression appeared off the north of Scotland. Thunderstorms were experienced over a wide area in these Islands, and heavy rain fell in many places; 0·4in. at Bath, 0·6in. at Stornoway, 1·2in. at Roche's Point, and 1·5in. at Jersey. A thunderstorm, with 0·6in. of rain, occurred at Bordeaux, and smaller quantities of rain fell in many other parts of France. The thermometer again rose above 80° in many Continental regions: 88° at Brindisi, and 90° at Athens. In England and the south of Scotland the maxima were 70° or rather higher.



July 27th.—The large depression off our south-west coasts and the Bay region moved in a north-easterly direction and became much deeper by evening and during the night. Further thunderstorms occurred in many parts of these Islands, with heavy rain in many places; 0·6in. at Portland Bill, 0·7in. at Birr Castle, 1·0in. at Donaghadee, and 1·2in. at Bath. About an inch of rain was also experienced in the west of Brittany, and 0·6in. at Le Mans. In nearly all parts of the United Kingdom the temperature was below 70°, but maxima above 80° were again common on the Continent; 86° at Biarritz and Lyons, 90° at Rome and Patras, and 91° at Florence. In the north of Sweden the thermometer touched 75°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 27TH. JULY, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⤇ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* | No. 31. | THIRTY-FIRST WEEK, SUNDAY, JULY 28TH, TO SATURDAY, AUGUST 3RD, 1912. | *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was extremely unsettled throughout the entire week. Rain was frequent, and often heavy, the sky seldom clear, and thunderstorms occurred on at least one occasion in most districts. At Alnwick Castle on July 29th a thunderstorm was accompanied by very large hail.

Temperature was much below the average; in Ireland South the deficit amounted to nearly 6°, and in many other districts to more than 4°. The highest of the maxima were generally recorded early in the week, and ranged from 70° in England North-East, East and South-East to 64° in several districts in the extreme north-west and north. The lowest of the minima, which occurred at most stations on August 3rd, were very low for the time of year. In England South-West (at Llangammarch Wells) the thermometer fell to 30°, and in Scotland East (at West Linton) to 31°, while elsewhere the readings ranged from 33° in Ireland North, to 38° in England East, and to 46° in the English Channel. On the grass the lowest values were 25° at Birmingham, 28° at Llangammarch Wells and Crathes, and 30° at Hereford and West Linton. At all stations except Clacton-on-Sea the thermometer at one foot below the surface of the soil recorded readings below the normal, but at 4 feet the mean values were mostly above the average.

Mean Temperature of the Sea. The temperature of the water was lower than during the corresponding week of last year very generally, and on most parts of the coast it was also below the average.

Rainfall was more than the average, the excess being very large except in Scotland East and West and England East. Falls of more than an inch in 24 hours occurred on July 28th and 31st and August 1st and 3rd. On the 31st they were very general in the north-west of England, and on the 3rd in the south-west. The heaviest daily amounts were 1·9 in. at Malin Head on the 28th, 2·3 in. at Blackpool on the 31st, and 1·9 in. at Scilly and Falmouth on the 3rd.

Bright Sunshine was considerably below the normal. Over a large area in the north and north-west of the Kingdom the mean daily amount was less than 3 hours, and in all districts excepting England South-East and the English Channel, it was less than 4½ hours. The percentage of the possible duration ranged from 16 in Scotland North and East, and 17 in England North-East to 30 in England South-East, and to 39 in the English Channel.

Barometer and Wind Cyclonic disturbances from the west or south-west followed each other in quick succession across these islands, and the wind during the greater part of the week was generally fresh or strong from between South and South-West, while gales were experienced at times on exposed parts of our western and southern coasts. On Thursday in the rear of a depression the wind veered to the North-Westward on most coasts and attained gale force at Lerwick and Malin Head. Subsequently, however, pressure became more uniform and the wind fell light. At the end of the period the wind was changing to the Eastward as a depression approached this country from the Bay of Biscay.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 123.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ... Warmth ...	Deficient	Very deficient	Deficient	Deficient	Very deficient	Very deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
Rainfall ...	Heavy	Moderate	Very heavy	Moderate	Very heavy	Heavy	Heavy	Very heavy	Very heavy	Heavy	Heavy	Very heavy
Sunshine ...	Scanty	Scanty	Very Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 9 weeks from June 2nd, 1912. Warmth ...	0 * 3	0 * 4	2 * 3	4 * 2	3 * 3	3 * 3	2 * 2	2 * 3	1 * 4	0 * 4	0 * 5	2 * 3
Rainfall ...	2 * 2	2 * 1	7 * 0	4 * 1	5 * 2	5 * 3	6 * 2	6 * 2	5 * 1	5 * 2	6 * 2	4 * 2
Sunshine ...	1 * 4	0 * 8	0 * 7	2 * 3	0 * 5	0 * 4	1 * 4	1 * 6	1 * 6	1 * 5	1 * 7	0 * 5

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks. Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks. Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks. Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks. Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(25792—24.) Wt. 173—814. 450. 8/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands.. *p* Baltasound .. S	61	30th	40	3rd	56·1	46·4	50·9	—	62	0	*	*	55·0	*	*	*	5	0·99	—	4·1	—	24	—	*Baltasound.*
a Lerwick..	58	29th	43	3rd	56·0	48·6	52·0	- 0·3	70	0	*	*	*	*	*	*	5	1·19	—	2·8	- 1·4	17	- 9	Deerness.
a Stornoway	59	29, 31	40	2, 3	56·7	48·1	52·1	- 2·0	71	0	*	*	*	*	*	*	6	1·05	+ 0·22	3·6	- 0·9	22	- 6	Stornoway.
a *Castlebay, Barra Isd.*	61	28th	44	2nd	55·9	49·4	52·4	- 4·2	73	0	*	*	*	*	*	*	6	1·27	—	3·8	—	24	—	*Castlebay.*
b, Mainland. *a* Wick	59	31st	39	2, 3	56·0	46·3	50·8	- 3·6	62	0	*	*	*	*	*	*	6	1·94	+ 1·29	*	*	*	*	*
p Strathpeffer	61	28, 30	38	3rd	59·4	46·3	52·4	- 3·3	73	0	*	*	*	*	*	*	5	0·76	+ 0·15	2·0	- 2·0	12	-13	Strathpeffer.
p Glencarron ..	61	28th	36	3rd	56·0	45·5	50·4	- 3·4	59	0	*	*	*	*	*	*	5	2·00	+ 0·56	*	*	*	*	*
p Fort Augustus..	63	28th	38	3rd	58·4	47·9	52·8	- 3·1	76	0	*	*	*	*	*	*	6	0·88	+ 0·13	2·2	- 0·9	14	- 5	Fort Augustus.
p Fort William ..	64	28th	37	3rd	59·4	46·9	52·7	- 3·7	75	0	*	*	*	*	*	*	6	1·53	+ 0·23	*	*	*	*	*
1. SCOTLAND, E.																								
p Gordon Castle.. S	64	28th	41	3rd	60·6	47·0	53·3	- 3·2	79	0	1	28	56·9	-2·1	55·0	-0·1	—	—	—	2·2	—	14	—	Crathes S.
a Nairn	64	28th	38	2, 3	59·0	46·0	52·1	- 4·3	71	0	*	*	*	*	*	*	4	0·44	- 0·36	2·5	—	16	—	*Gordon Castle.*
a Aberdeen ..	65	30th	39	3rd	60·4	47·3	53·4	- 2·8	80	0	*	*	*	*	*	*	6	0·69	+ 0·13	2·6	—	16	—	Nairn.
a Balmoral ..	63	31st	37	1st	58·4	42·9	50·1	- 3·6	57	0	0	34	*	*	53·7	0·0	4	0·70	+ 0·06	3·5	- 1·6	22	-10	Aberdeen.
p Crieff	62	29, 31	40	3rd	59·9	46·0	52·5	- 5·1	74	0	*	*	*	*	*	*	2	0·46	- 0·27	*	*	*	*	Balmoral.
a Leith	64	28th	42	3rd	60·6	49·4	54·6	- 3·6	88	0	*	*	*	*	*	*	3	0·64	- 0·17	1·5	—	9	—	Balruddery.
p West Linton .. S	64	28th	31	3rd	57·9	44·1	50·5	- 4·6	60	0	1	30	*	*	*	*	5	1·33	+ 0·70	*	*	*	*	*
p Marchmont .. S	64	28th	36	3rd	59·3	45·7	52·0	- 4·1	70	0	0	33	56·6	-2·1	*	*	6	1·03	—	2·2	—	14	—	*West Linton.*
																	6	0·73	- 0·04	3·1	- 2·0	20	-13	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	64	28, 30	36	3rd	60·4	48·0	53·8	- 3·2	83	0	0	33	55·2	-3·8	55·5	-0·2	6	1·34	+ 0·69	2·3	—	15	—	Cockle Park.
a Shields	65	28, 30	38	3rd	59·6	48·9	53·9	- 3·8	83	0	*	*	*	*	*	*	6	2·70	+ 2·10	*	*	*	*	*Newcastle.*
a Durham	64	28th	35	3rd	59·9	46·7	52·8	- 5·4	76	0	0	33	*	*	*	*	6	1·96	+ 1·34	1·7	- 3·4	11	-22	Durham.
a, North .. *p* Rounton	65	28, 30	38	3rd	60·7	47·3	53·5	- 4·1	81	0	0	31	58·4	*	*	*	7	2·12	+ 1·47	*	*	*	*	Rounton.
a *West Witton*	62	28th	35	3rd	60·0	48·0	53·6	—	81	0	0	34	58·7	*	55·3	*	7	2·64	—	*	*	*	*	*West Witton.*
p Scarborough	70	31st	49	3rd	62·6	52·2	57·0	- 1·5	105	0	*	*	*	*	59·8†	*	7	1·70	+ 1·12	2·1	—	14	—	Scarborough.
p York	65	28th	40	3rd	63·4	50·4	56·5	- 2·9	102	0	*	*	61·4	+1·6	56·5	0·0	5	1·41	+ 0·83	1·7	- 3·7	11	-24	York.
a Spurn Head	69	28th	46	3rd	62·4	51·6	56·6†	- 2·8	102	0	0	35	58·9	-2·1	56·7	+1·2	5	0·53	+ 0·10	1·8	—	12	—	*Hull.*
b, South .. *a* Lincoln	68	28th	41	3rd	63·3	50·4	56·4†	- 3·7	101	0	*	*	59·4	-2·6	58·1	+1·0	5	0·64	+ 0·11	*	*	*	*	Lincoln.
a Fulbeck	68	28th	37	3rd	62·7	50·0	55·9	- 4·2	97	0	0	32	60·7	-3·7	57·9	-0·4	5	1·45	+ 0·91	4·4	*	29	*	Rauceby.
											*	*	*	*	*	*	—	—	—	3·5	—	23	—	Skegness.
3. ENGLAND, E.											0	44	63·1	-1·3	61·4	+1·6	—	—	—	5·1	*	33	*	*Lowestoft.*
p Cromer	67	28th	44	1st	62·6	49·0	55·3	- 4·9	93	0	*	*	*	*	*	*	6	0·80	—	3·6	—	23	—	Cromer.
p Hillington											*	*	*	*	*	*	—	—	—	*	*	*	*	Hillington.
a, North .. *a* Yarmouth	70	28th	48	2nd	65·6	52·6	58·7	- 1·7	117	0	*	*	62·9	-3·5	62·4	+0·8	2	0·37	- 0·17	4·7	—	31	—	Yarmouth.
a Norwich (Southwell)	69	28th	46	3rd	65·4	51·6	58·0	- 2·4	112	0	0	41	62·8	*	*	*	4	0·41	—	4·3	—	28	—	*Norwich.*
p Geldeston	69	28th	45	2nd	65·6	51·6	58·1	- 1·8	113	0	*	*	*	*	*	*	2	0·25	- 0·26	4·5	- 2·2	29	-14	Geldeston.
p Cambridge	69	28th	38	3rd	63·6	48·9	55·7	- 5·3	96	0	0	32	61·7	-2·2	61·0	+1·1	4	0·56	+ 0·03	3·5	- 3·0	23	-20	Cambridge.
a *Felixstowe*	69	30th	47	3rd	66·3	53·9	59·7	- 1·6	124	0	*	*	*	*	*	*	3	0·35	—'	6·2	—	41	—	*Felixstowe.*
a Clacton-on-Sea ..	70	30th	46	3rd	66·1	53·7	59·5	- 1·8	123	0	0	39	61·8	+0·5	60·3	+0·2	4	0·23	—	5·5	—	36	—	Clacton.
b, South .. *a* Rothamsted	66	28th	41	3rd	62·0	49·4	55·3	- 4·6	93	0	*	*	*	*	*	*	5	0·74	+ 0·18	3·6	- 3·2	24	-21	Rothamsted.
a *Shoeburyness*	70	30th	46	3rd	66·3	53·9	59·7	- 3·0	124	0	0	42	65·3	-1·7	*	*	2	0·22	- 0·17	5·2	—	34	—	*Southend.*
p Tottenham	70	28th	45	3rd	65·3	52·4	58·4	- 3·8	115	0	0	40	*	*	62·4	+1·4	5	1·02	—	5·3	—	35	—	Tottenham.
4. MIDLAND COUNTIES.											0	34	58·7	-3·4	56·1	+0·1	—	—	—	3·8	—	25	—	*Huddersfield.*
a Harrogate	63	28th	39	3rd	59·6	48·4	53·6	- 4·0	81	0	0	36	57·2	-0·5	56·4	+0·7	5	2·59	+ 2·01	2·3	—	15	—	Harrogate.
a Bawtry	66	28th	40	3rd	62·4	49·9	55·7	- 4·0	96	0	0	33	59·3	*	58·2	*	4	0·76	+ 0·22	2·7	- 2·3	18	-15	Worksop.
p *Buxton*	60	28, 3	34	3rd	57·4	46·3	51·5	- 5·2	67	0	0	33	57·6	-2·3	54·9	+0·7	6	3·13	+ 2·17	3·8	—	25	—	*Buxton.*
a East .. *a* Nottingham	67	28th	38	3rd	62·3	50·1	55·8	- 4·3	97	0	0	34	59·1	-3·2	59·6	+1·0	5	1·13	+ 0·59	3·0	—	20	—	Nottingham.
p Birmingham, Edgbsn.	65	28th	43	3rd	60·6	49·1	54·5	- 4·7	88	0	1	25	54·9	-2·4	53·7	+0·5	5	1·62	+ 1·07	3·0	—	20	—	Birmingham.
a Raunds	68	28, 30	37	3rd	64·6	48·9	56·2	- 4·7	99	0	0	31	61·8	*	58·5	*	4	1·22	—	*	*	*	*	Raunds.
a Oxford	66	28th	41	3rd	63·7	50·3	56·5	- 4·7	102	0	0	35	58·6	-1·6	56·0	+0·7	6	0·81	+ 0·28	3·8	- 2·5	25	-19	Oxford.
											0	36	*	*	61·8	+1·0	—	—	—	4·1	*	26	*	Sheffield.
a Cheadle	64	28th	40	2nd	60·0	48·7	54·0	- 3·7	84	0	0	31	*	*	*	*	6	2·00	+ 1·30	*	*	*	*	Cheadle.
p Shrewsbury	65	28th	35	3rd	61·9	48·7	54·8	- 4·4	90	0	0	34	*	*	*	*	5	1·35	—	*	*	*	*	Shrewsbury.
b, West .. *a* Hereford	66	30th	35	3rd	62·0	48·0	54·5	- 5·5	88	0	1	30	*	*	*	*	7	2·00	+ 1·47	*	*	*	*	Hereford.
a Cirencester	63	29, 30	42	2nd	61·4	47·7	54·1	- 4·8	85	0	0	38	58·7	*	57·9	*	5	1·98	+ 1·35	3·9	- 2·2	26	-16	Cirencester.
a Bath	65	28, 30, 31	38	3rd	64·1	50·0	56·6	- 3·8	102	0	*	*	61·9	-2·5	61·3	+0·3	5	1·45	+ 0·85	3·9	*	26	—	Bath.
5. ENGLAND, S.E.											0	36	*	*	61·8	+1·0	—	—	—	*	*	*	*	Canterbury.
p Kew	68	28th	45	3rd	65·4	52·1	58·3	- 3·2	114	0	0	34	61·7	-1·3	59·4	+1·0	5	0·88	+ 0·37	4·6	- 1·9	30	-13	Kew.
a Marlborough	64	28, 30	34	3rd	61·8	46·6	53·7	- 5·7	82	0	0	31	*	*	*	*	5	1·19	+ 0·65	?2·9	- 3·1	?19	-20	Marlborough
a Margate	70	30th	48	2nd	66·7	52·6	59·2	- 2·8	120	0	*	—	61·7	-1·5	60·0	+0·8	4	0·63	+ 0·18	2·9	- 3·7	19	-24	Margate.
a Wisley, Surrey ..	68	28th	41	3rd	65·0	50·3	57·1	- 4·8	108	0	0	36	62·8	-0·8	61·0	+1·0	6	0·91	—	4·7	—	31	—	Wisley
a Swarraton	65	28th	37	3rd	62·9	47·7	54·8	- 4·6	90	0	0	37	63·2	-1·8	61·7	+1·4	6	1·18	+ 0·61	4·8	—	32	—	Worthing.
a Tunbridge Wells ..	67	30th	43	3rd	64·3	49·1	56·2	- 4·1	99	0	0	38	62·6	-2·2	*	*	5	0·84	+ 0·34	5·1	- 1·5	33	-10	Tunbridge Wells.
a Dungeness	66	28, 29, 2	47	3rd	65·3	54·0	59·3	- 1·8	121	0	*	*	*	*	*	*	3	0·27	- 0·15	5·7	—	38	—	Littlestone.
p Hastings..	66	30th	49	2, 3	64·4	53·3	58·5	- 2·8	116	0	0	42	64·8	*	62·4	*	4	0·51	- 0·02	5·9	- 1·6	39	-10	*Hastings.*
p Southampton	66	30, 1	44	3rd	64·1	50·9	57·0	- 5·5	105	0	0	40	*	*	*	*	6	1·72	+ 1·16	3·9	- 3·2	26	-21	Southampton.
a Ventnor	69	28th	50	2, 3	65·3	53·4	58·9	- 3·4	118	0	*	*	*	*	*	*	4	0·64	+ 0·17	4·7	- 2·2	31	-15	Ventnor.
											0	39	62·7	-3·3	62·2	+0·6	—	—	—	5·0	—	33	—	*Portsmouth.*
											*	*	63·3	*	61·5	*	—	—	—	6·4	- 1·0	42	- 6	Eastbourne.
											*	*	61·6	*	61·9	*	—	—	—	3·5	—	23	—	*Bournemouth.*
LONDON.											0	40	*	*	62·7	*	—	—	—	4·4	- 3·0	29	-20	*Brighton.*
a *Westminster*	67	28, 30	48	2nd	64·7	53·3	58·6	- 3·2	116	0	0	42	*	*	*	*	5	0·94	+ 0·42	4·9	- 0·8	32	- 6	*Westminster.*
a *Greenwich*	72	28th	42	3rd	68·1	50·6	58·7	- 4·4	117	0	0	32	*	*	*	*	5	0·88	+ 0·36	5·1	- 2·4	33	-16	*Greenwich.*
a *Hampstead*	65	28, 30	45	31, 2	63·1	50·0	56·1	—	99	0	0	32	*	*	*	*	5	1·04	—	4·9	—	32	—	*Hampstead.*
a *Camden Square* ..	71	3rd	45	3rd	67·7	51·4	59·0	—	119	0	0	43	*	*	*	*	5	0·93	—	4·2	—	28	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	64	28th	36	3rd	59·4	48·0	53·3	- 4·0	79	0	*	*	*	*	*	*	6	0·70	- 0·29	*	*	*	*	*
p Glasgow .. .. S	63	28th	40	3rd	59·7	48·3	53·6	- 3·3	81	0	0	33	*	*	*	*	7	1·21	+ 0·40	2·7	- 1·7	17	-11	Glasgow.
p Rothesay .. S	63	29, 31, 3	41	3rd	61·4	48·4	54·5	- 2·7	88	0	*	*	*	*	56·0	+1·1	4	0·63	- 0·38	*	*	*	*	*
a Kilmarnock	64	28th	39	3rd	61·0	48·4	54·3	- 3·1	86	0	*	*	*	*	*	*	4	1·18	—	3·9	—	25	—	*Kilmarnock.*
a Colmonell	63	28, 29, 3	38	3rd	61·4	48·6	54·6	- 2·6	88	0	0	34	*	*	*	*	5	0·49	- 0·34	*	*	*	*	*
p Dumfries	62	28th	36	3rd	59·4	47·9	53·3	- 4·9	79	0	0	33	60·0	*	59·7	*	7	1·64	+ 0·84	2·1½	—	13	—	*Dumfries.*
p Cally, Gatehouse ..	64	1st	35	2nd	61·7	48·1	53·4	- 3·6	80	0	*	*	*	*	*	*	3	0·69	- 0·27	*	*	*	*	*
b I. OF MAN.																								
p Douglas	60	28th	43	3rd	57·9	48·7	53·0	- 4·0	77	0	0	38	*	*	*	*	5	1·67	+ 0·85	5·2	- 0·8	33	- 5	Douglas.
											0	34	57·8	-1·6	56·2	+1·0	—	—	—	2·1	—	14	—	*Burnley.*
											*	*	*	*	*	*	—	—	—	*	*	*	*	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	62	28, 29	40	3rd	60·1	48·3	53·8	- 2·9	83	0	0	34	59·5	*	56·2	*	6	2·42	+ 1·49	2·6	—	17	—	Aspatria.
p Newton Rigg	62	3rd	34	3rd	59·1	46·1	52·2	- 4·3	71	0	1	24	58·8	-1·5	56·1	+0·1	6	1·89	+ 1·16	3·1	- 2·2	20	-14	Newton Rigg.
p Stonyhurst	63	28th	46	3rd	58·7	49·7	53·9	- 4·0	83	0	0	37	*	*	*	*	6	3·10	+ 2·10	2·2	- 3·1	14	-20	Stonyhurst.
p Blackpool	64	28th	43	3rd	60·6	51·9	56·0	- 2·9	98	0	0	39	59·4	*	56·9	*	6	3·31	+ 2·58	4·1	- 1·6	26	-10	Blackpool.
p *Manchester (Whit. Pk.)*	64	28, 29, 3	40	3rd	61·7	50·4	55·4	—	94	0	0	42	*	*	*	*	7	2·04	—	3·0	—	19	—	*Whit Park.*
a Liverpool (Bidston) ..	64	28th	45	3rd	60·0	50·7	55·0	- 4·2	91	0	*	*	*	*	*	*	6	2·09	+ 1·45	3·4	—	22	—	*Liverpool.*
a Hawarden Bridge ..	64	28, 29	39	3rd	61·4	51·1	55·9	- 4·2	97	0	0	38	60·6	-3·3	60·4	-0·6	6	1·73	+ 1·16	4·1	- 1·9	26	-13	*Southport.*
											0	39	60·4	-1·0	60·1	+1·7	—	—	—	2·1	*	14	*	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	64	28th	44	3rd	61·4	50·9	55·8	- 3·7	97	0	*	*	*	*	*	*	6	2·54	+ 1·97	4·6	- 1·1	30	- 7	Llandudno.
a Holyhead	61	30, 1, 3	48	2nd	59·6	51·3	55·2	- 3·0	92	0	*	*	*	*	*	*	4	2·03	+ 1·40	3·9	—	25	—	Aberdovey.
p Bettws-y-Coed ..	63	28th	40	28th	61·1	48·6	54·4	- 4·5	87	0	0	38	57·3	-1·1	56·0	+1·0	6	3·80	—	3·8	—	25	—	Bettws-y-Coed.

For notes see opposite page. † At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	62	28th	30	3rd	60·0	45·6	52·3	− 5·3	72	0	1	28	57·8	−0·8	55·3	+0·2	7	2·70	—	4·3	—	28	—	Llangammarch
a Pembroke	63	3rd	46	3rd	59·9	51·4	55·4	− 3·1	94	0	*	*	*	*	*	*	6	2·65	+ 2·05	4·3	− 2·1	28	−14	Pembroke.[Wells
p Cardiff	63	28th	38	3rd	61·1	48·9	54·6	− 6·0	88	0	0	31	60·4	−1·3	59·4	+0·6	5	3·08	+ 2·23	*4·8*	—	*31*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	64	28, 30, 1	43	3rd	63·3	50·9	56·7	− 4·9	103	0	0	39	*	*	*	*	5	2·83	+ 2·13	*4·1*	—	*27*	—	*Clifton.*
a Shaftesbury	62	28th	43	3rd	59·3	47·9	53·2	− 6·3	78	0	*	*	59·3	*	59·3	*	6	0·83	+ 0·30	*	*	*	*	Shaftesbury.
a Arlington	61	28, 1	38	3rd	59·4	47·6	53·1	− 5·0	78	0	*	*	60·4	*	*	*	6	3·39	+ 2·39	4·3	− 2·5	29	−17	Newquay.
a Cullompton	66	28, 31	36	3rd	64·0	47·4	55·1	− 5·0	92	0	0	37	60·8	*	*	*	7	1·74	+ 1·07	2·7	− 3·3	18	−22	Cullompton.
a Portland	65	1st	49	3rd	61·9	54·9	58·2	− 2·3	113	0	*	*	*	*	*	*	4	0·60	—	*5·3*	—	*35*	—	*Weymouth.*
p Plymouth	64	31st	42	3rd	61·9	51·8	56·5	− 4·5	102	0	0	35	61·2	−4·8	*	*	6	2·06	+ 1·42	4·3	− 2·3	29	−15	Plymouth.
p Falmouth	63	28, 29, 31	47	3rd	60·7	52·4	56·3	− 3·9	100	0	*	*	*	*	*	*	7	2·99	+ 2·29	5·0	− 2·2	33	−14	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	63	29th	42	3rd	57·6	48·4	52·7	− 3·7	75	0	*	*	*	*	*	*	6	2·52	+ 1·79	*	*	*	*	* *
a Blacksod Point ..	61	29th	42	2nd	58·6	48·0	52·9	− 4·7	76	0	*	*	*	*	*	*	5	0·43	− 0·44	*	*	*	*	* *
p Markree Castle ..	62	3rd	33	3rd	58·9	42·4	50·1	− 6·6	57	0	1	28	58·3	*	56·0	*	7	1·49	+ 0·62	3·3	− 0·8	21	− 5	Markree Castle.
a Birr Castle	64	3rd	39	2nd	59·4	46·3	52·4	− 5·8	73	0	*	*	*	*	*	*	7	1·57	+ 0·31	*3·8*	− *0·7*	*25*	− *5*	*Birr Castle.*
b, East .. *p* Armagh	61	3rd	39	2nd	59·1	46·1	52·2	− 5·2	71	0	0	34	59·1	−2·6	57·5	−0·5	6	0·87	+ 0·07	2·9	− 1·5	19	−10	Armagh.
a Donaghadee	61	28, 29, 30	42	3rd	59·0	48·0	53·1	− 4·6	78	0	*	*	*	*	*	*	3	0·67	− 0·05	*	*	*	*	* *
10. IRELAND, S.											0	37	59·0	−2·3	57·8	−0·3	—	—	—	*	*	*	*	Trinity Coll.
											0	32	*	*	*	*	—	—	—	3·0	− 2·4	20	−15	Phœnix Park.
a, East .. *p* Dublin, City	62	29, 30	43	2nd	60·0	48·9	54·1	− 5·8	85	0	0	41	*	*	*	*	7	1·48	+ 0·82	*	*	*	*	Dublin City.
a Kilkenny	63	28th	38	2, 3	60·0	48·0	52·5	− 6·0	74	0	*	*	*	*	*	*	7	1·65	+ 0·96	*	*	*	*	* *
a Waterford	63	28th	38	3rd	61·1	47·1	53·6	− 5·7	81	0	*	*	*	*	*	*	6	1·53	+0·73	*	*	*	*	* *
b, West .. *a* Birr Castle	64	3rd	39	2nd	59·4	46·3	52·4	− 5·8	73	0	*	*	*	*	*	*	7	1·57	+ 0·81	3·8	− 0·7	25	− 5	Birr Castle.
a Foynes	62	3rd	41	3rd	58·7	47·4	52·7	− 6·0	75	0	*	*	*	*	*	*	7	1·22	+ 0·42	*	*	*	*	* *
a Cahir	64	28th	37	3rd	60·9	46·7	53·3	− 5·5	79	0	*	*	*	*	*	*	7	1·59	—	*	*	*	*	* *
a Killarney	65	3rd	39	3rd	61·7	47·1	53·9	− 4·6	83	0	*	*	*	*	*	*	6	1·10	+ 0·22	*	*	*	*	* *
a Valencia	62	3rd	41	3rd	59·1	48·0	53·2	− 5·4	78	0	*	*	*	*	*	*	6	1·06	+ 0·06	5·5	+ 0·6	36	+ 4	Valencia.
a Roche's Point	63	30th	43	2nd	60·4	49·3	54·5	− 4·6	88	0	*	*	*	*	*	*	6	1·05	+ 0·30	3·1	*	20	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	30th	48	3rd	61·4	52·4	56·6	− 4·1	102	0	*	*	*	*	*	*	6	2·41	+ 1·87	5·4	− 1·8	36	−12	Scilly.
a Jersey, St. Aubins ..	68	28th	46	3rd	65·1	54·4	59·4	− 3·2	122	0	*	*	*	*	*	*	6	1·70	+ 1·18	6·0	− 1·9	40	−13	St. Heliers.
a Guernsey (Villa Carey)	65	28th	49	3rd	63·3	53·9	58·3	− 3·1	114	0	0	46	63·4	−1·1	62·8	+1·7	7	1·41	+ 0·87	6·0	− 2·2	49	−15	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·0 hrs. 33 °/₀; Ramsgate, 4·7 hrs. 31 °/₀; Rhyl, 4·6 hrs. 31 °/₀; Salcombe, 5·4 hrs. 36 °/₀; Tenby, 5·3 hrs. (−1·2) 35 °/₀ (− 8 °/₀); Torquay, 3·9 hrs. (−3·1) 26 °/₀ (−20 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 3rd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick‡	53	52	53·0	+0·2	SCOTLAND, W. ..	Lamlash	63	49	55·7	−0·2
	Kirkwall	? 62	? 57	? 59·7	? +4·1		Ballantrae	59	54	56·5	+0·5
	Wick	54	53	53·6	+0·9	ENGLAND, N.W. ..	Port Erin	57	56	56·3	0·0
	Cromarty	59	54	57·1	+0·6		Newquay	60	59	59·8	−1·7
SCOTLAND, E. ..	Pennan Bay	55	52	53·7	−2·7	ENGLAND, S.W. ..	Scilly	59	57	58·4	—
	Aberdeen, Cove Bay	54	52	53·1	−1·8		Plymouth‡	61	60	60·9	0·0
	Burnmouth, Berwick	55	53	54·0	−0·6		Salcombe	64	56	59·2	+0·6
ENGLAND, N.E. ..	Scarborough	58	56	57·3	0·0		Sheephaven	59	55	57·2	−1·5
	Shipwash Lightship	66	61	63·8	+1·9	IRELAND, N.W. ..	Teelin	59	56	57·1	−3·2
ENGLAND, E. ..	Margate‡	65	63	64·1	−0·3		Cleggan	58	56	57·0	−0·5
ENGLAND, S.E. ..	Eastbourne‡	66	63	64·3	+0·5	IRELAND, S.W. ..	Seafield	64	52	57·8	−3·5
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881-1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-FIRST WEEK—July 28th to August 3rd, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	64	36	57·4	47·1	51·9	− 3·2	69	− 23	0	0	6	+ 1	1·34	+0·48	2·7	−1·0	16	− 6
Eastern.																		
1. SCOTLAND, EAST ...	65	31	59·5	46·1	52·3	− 4·3	72	− 31	0	0	5	+ 1	0·75	+0·12	2·6	−2·4	16	−15
2. ENGLAND, N.E.	70	35	61·7	49·5	55·2	− 3·5	92	− 25	0	0	6	+ 3	1·54	+0·85	2·6	−3·0	17	−19
3. ENGLAND, EAST ...	70	38	64·5	51·2	57·4	− 3·1	108	− 22	0	0	4	+ 1	0·55	+0·06	4·4	−1·8	29	−12
4. MIDLAND COUNTIES ...	68	35	62·1	49·1	55·1	− 4·7	92	− 32	0	0	5	+ 2	1·54	+0·98	3·3	−2·3	22	−15
5. ENGLAND, S.E.	70	34	64·5	51·0	57·3	− 4·2	107	− 29	0	0	5	+ 2	0·88	+0·40	4·6	−1·9	30	−12
Western.																		
6. SCOTLAND, WEST ...	64	35	60·2	48·1	53·8	− 3·4	83	− 23	0	0	5	+ 1	1·03	+0·16	4·0	−1·4	25	− 9
7. ENGLAND, N.W.	64	34	60·2	49·8	54·7	− 4·3	89	− 30	0	0	6	+ 3	2·55	+1·77	3·5	−2·0	22	−13
8. ENGLAND, S.W.	66	30	61·2	49·9	55·1	− 4·8	92	− 33	0	0	6	+ 3	2·30	+1·63	4·1	−2·0	27	−13
9. IRELAND, NORTH ...	64	33	58·8	46·5	52·2	− 5·4	71	− 38	0	0	6	+ 1	1·26	+0·45	3·1	−1·2	20	− 8
10. IRELAND, SOUTH ...	65	37	60·1	47·4	53·4	− 5·8	80	− 40	0	0	7	+ 3	1·36	+0·55	3·9	−1·1	25	− 7
11. ENGLISH CHANNEL ...	68	46	63·3	53·6	58·1	− 3·6	113	− 25	0	0	6	+ 3	1·84	+1·31	5·8	−2·2	39	−15

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 9 Weeks, June 2nd to Aug. 3rd, 1912.

0. SCOTLAND, NORTH ...	74	35	*	*	*	*	721	− 37	0	− 2	37	0	6·22	−0·39	3·6	−1·0	21	− 6
Eastern.																		
1. SCOTLAND, EAST ...	87	31	*	*	*	*	783	− 73	0	− 1	38	+ 6	5·85	+0·45	3·0	−2·6	18	−15
2. ENGLAND, N.E.	86	35	*	*	*	*	926	− 33	0	0	45	+17	9·03	+4·49	3·8	−2·4	23	−14
3. ENGLAND, EAST ...	91	38	*	*	*	*	1135	+ 57	0	0	34	+ 7	5·35	+0·90	6·1	−0·7	38	− 4
4. MIDLAND COUNTIES ...	88	35	*	*	*	*	1015	− 39	0	0	38	+11	7·98	+3·35	4·4	−1·7	27	−11
5. ENGLAND, S.E.	88	34	*	*	*	*	1115	− 15	0	0	31	+ 6	5·43	+1·23	6·1	−0·8	38	− 5
Western.																		
6. SCOTLAND, WEST ...	83	35	*	*	*	*	887	− 23	0	0	39	+ 6	8·38	+1·61	4·6	−1·3	28	− 8
7. ENGLAND, N.W.	84	34	*	*	*	*	961	− 35	0	0	41	+11	9·12	+3·55	4·6	−1·5	28	−10
8. ENGLAND, S.W.	88	30	*	*	*	*	1002	− 48	0	0	41	+12	9·45	+4·01	5·0	−1·6	31	−10
9. IRELAND, NORTH ...	75	33	*	*	*	*	805	−112	0	0	42	+ 4	8·70	+2·49	4·4	−0·6	27	− 3
10 IRELAND, SOUTH ...	79	33	*	*	*	*	901	−114	0	0	46	+14	10·76	+4·86	4·8	−0·7	30	− 4
11. ENGLISH CHANNEL ...	82	45	*	*	*	*	1079	− 47	0	0	39	+10	7·75	+3·46	6·4	−1·6	40	−11

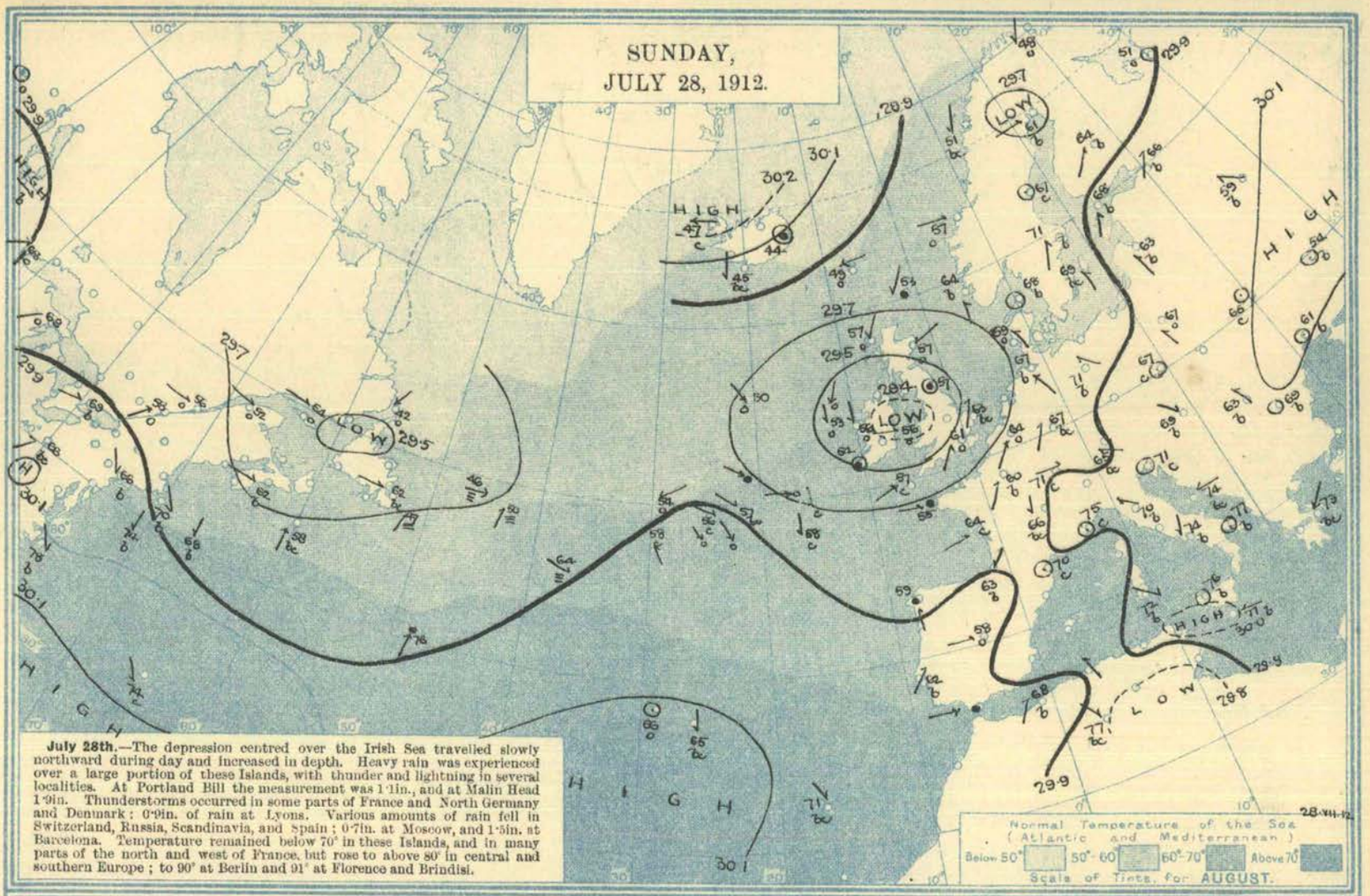
THE YEAR.—Aggregates, &c., for the Period of 31 Weeks, December 31st, 1911, to August 3rd, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1,209	+ 3	427	−130	141	0	26·44	−1·01	3·4	−0·2	25	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1,389	+ 2	519	−101	128	+12	16·41	−0·25	3·4	−0·8	26	− 6
2. ENGLAND, N.E.	86	10	*	*	*	*	1,633	+122	373	−102	124	+19	18·69	+5·67	3·6	−1·0	27	− 7
3. ENGLAND, EAST ...	91	14	*	*	*	*	2,016	+247	274	−247	111	+ 9	13·57	+0·80	4·5	−0·4	35	− 3
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	1,867	+ 94	373	−160	114	+13	19·96	+5·62	3·7	−0·7	28	− 5
5. ENGLAND, S.E.	88	13	*	*	*	*	2,036	+139	218	−163	105	+ 9	16·21	+2·40	4·7	−0·2	36	− 2
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1,537	+ 35	329	− 96	129	+ 7	25·39	+0·80	3·9	−0·5	29	− 4
7. ENGLAND, N.W. ...	84	7	*	*	*	*	1,699	+ 79	298	− 88	122	+11	21·38	+3·52	4·0	−0·4	30	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	1,877	+ 62	189	−112	131	+22	25·73	+6·21	4·0	−0·8	31	− 6
9. IRELAND, NORTH ...	75	15	*	*	*	*	1,550	− 27	237	−108	125	− 8	21·91	+1·74	3·6	−0·4	28	− 3
10. IRELAND, SOUTH ...	79	13	*	*	*	*	1,822	− 12	167	− 92	147	+29	26·66	+5·24	3·7	−0·8	28	− 6
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2,276	+231	44	− 65	127	+11	21·25	+5·04	5·1	−0·7	40	− 6

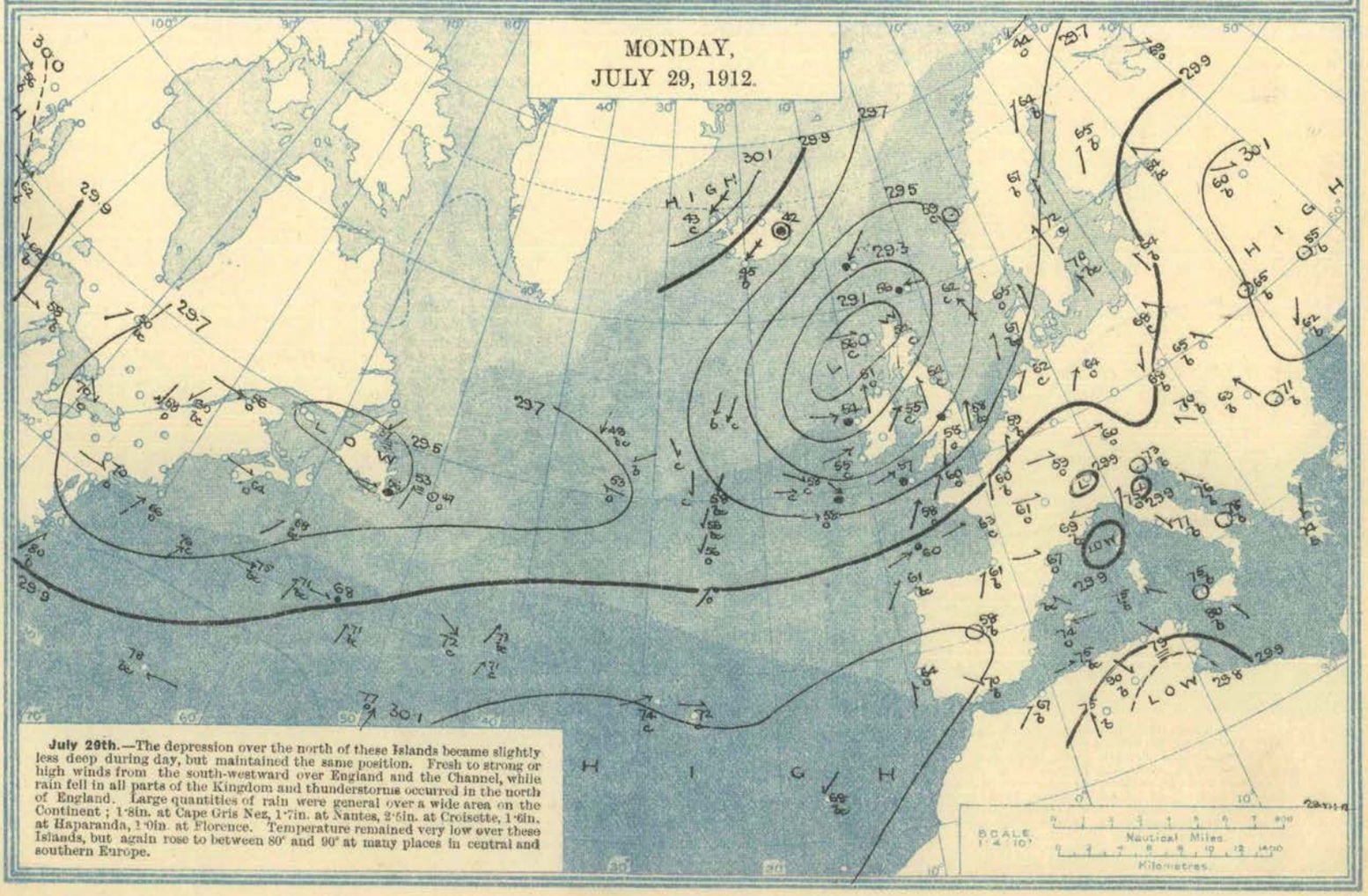
M.O., July 31, 1912.

NOTES ON TABLE IV.

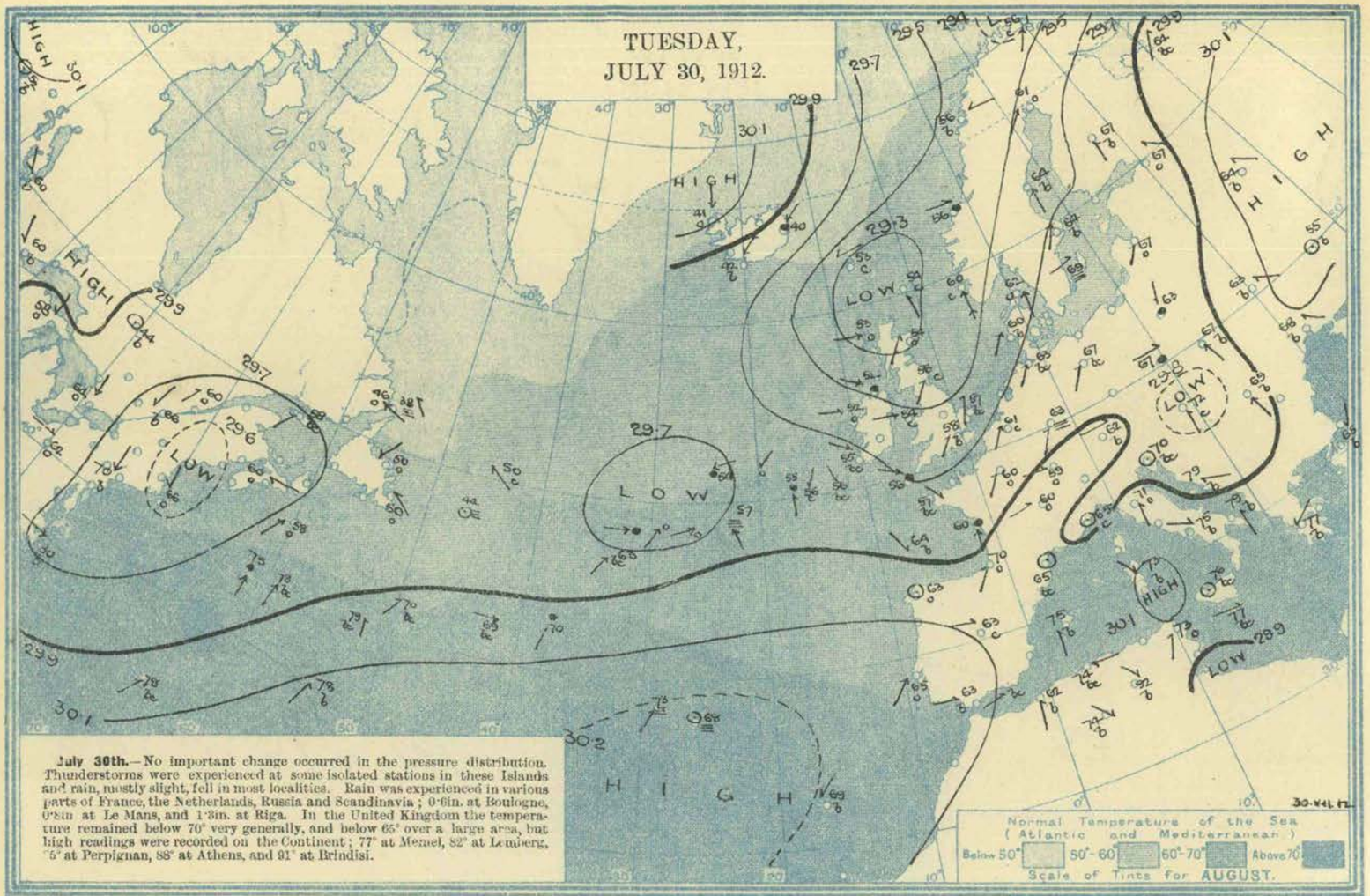
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



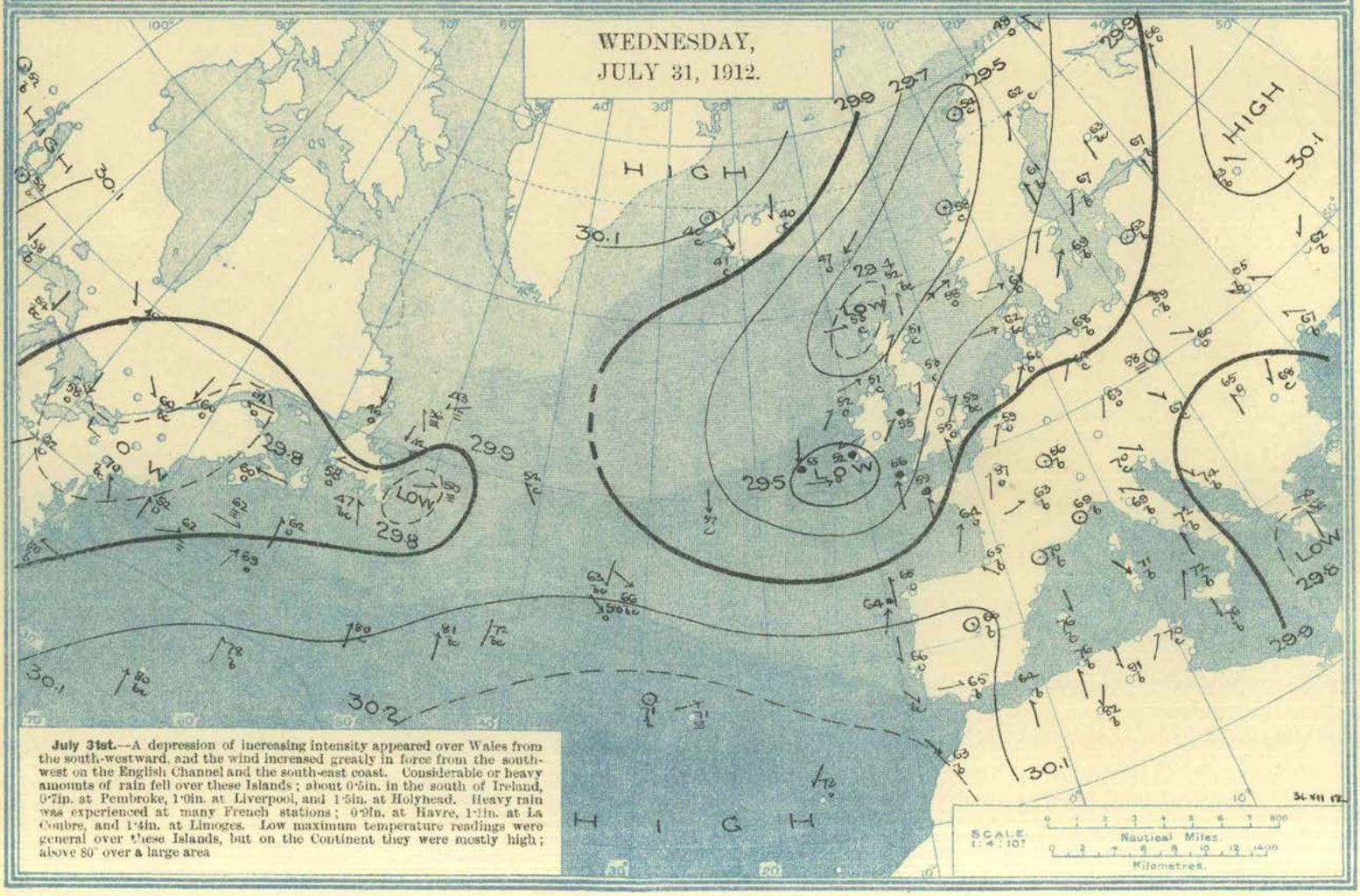
July 28th.—The depression centred over the Irish Sea travelled slowly northward during day and increased in depth. Heavy rain was experienced over a large portion of these Islands, with thunder and lightning in several localities. At Portland Bill the measurement was 1·1in., and at Malin Head 1·9in. Thunderstorms occurred in some parts of France and North Germany and Denmark; 0·9in. of rain at Lyons. Various amounts of rain fell in Switzerland, Russia, Scandinavia, and Spain; 0·7in. at Moscow, and 1·5in. at Barcelona. Temperature remained below 70° in these Islands, and in many parts of the north and west of France, but rose to above 80° in central and southern Europe; to 90° at Berlin and 91° at Florence and Brindisi.



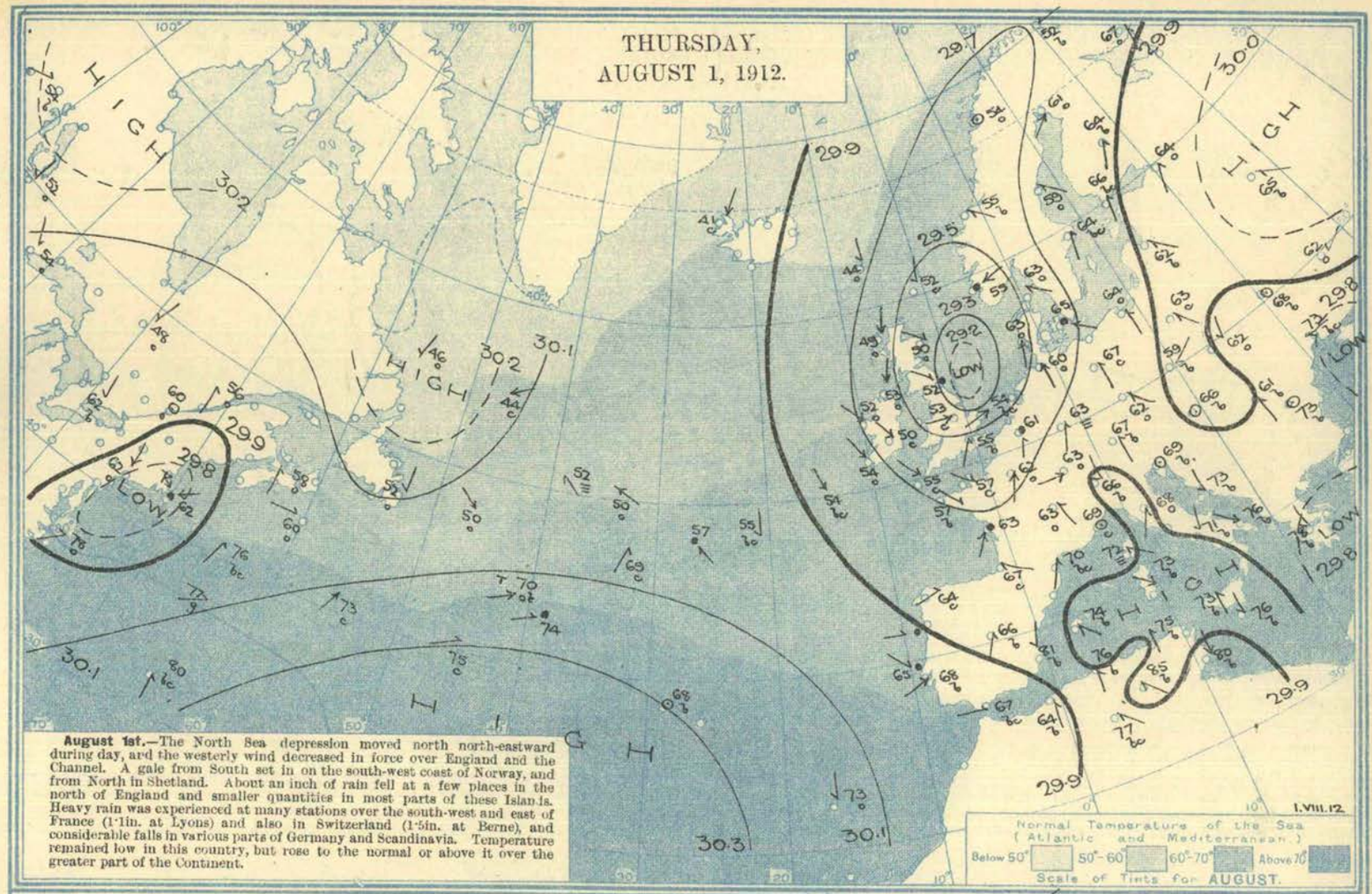
July 29th.—The depression over the north of these Islands became slightly less deep during day, but maintained the same position. Fresh to strong or high winds from the south-westward over England and the Channel, while rain fell in all parts of the Kingdom and thunderstorms occurred in the north of England. Large quantities of rain were general over a wide area on the Continent; 1·8in. at Cape Gris Nez, 1·7in. at Nantes, 2·6in. at Croisette, 1·6in. at Haparanda, 1·0in. at Florence. Temperature remained very low over these Islands, but again rose to between 80° and 90° at many places in central and southern Europe.



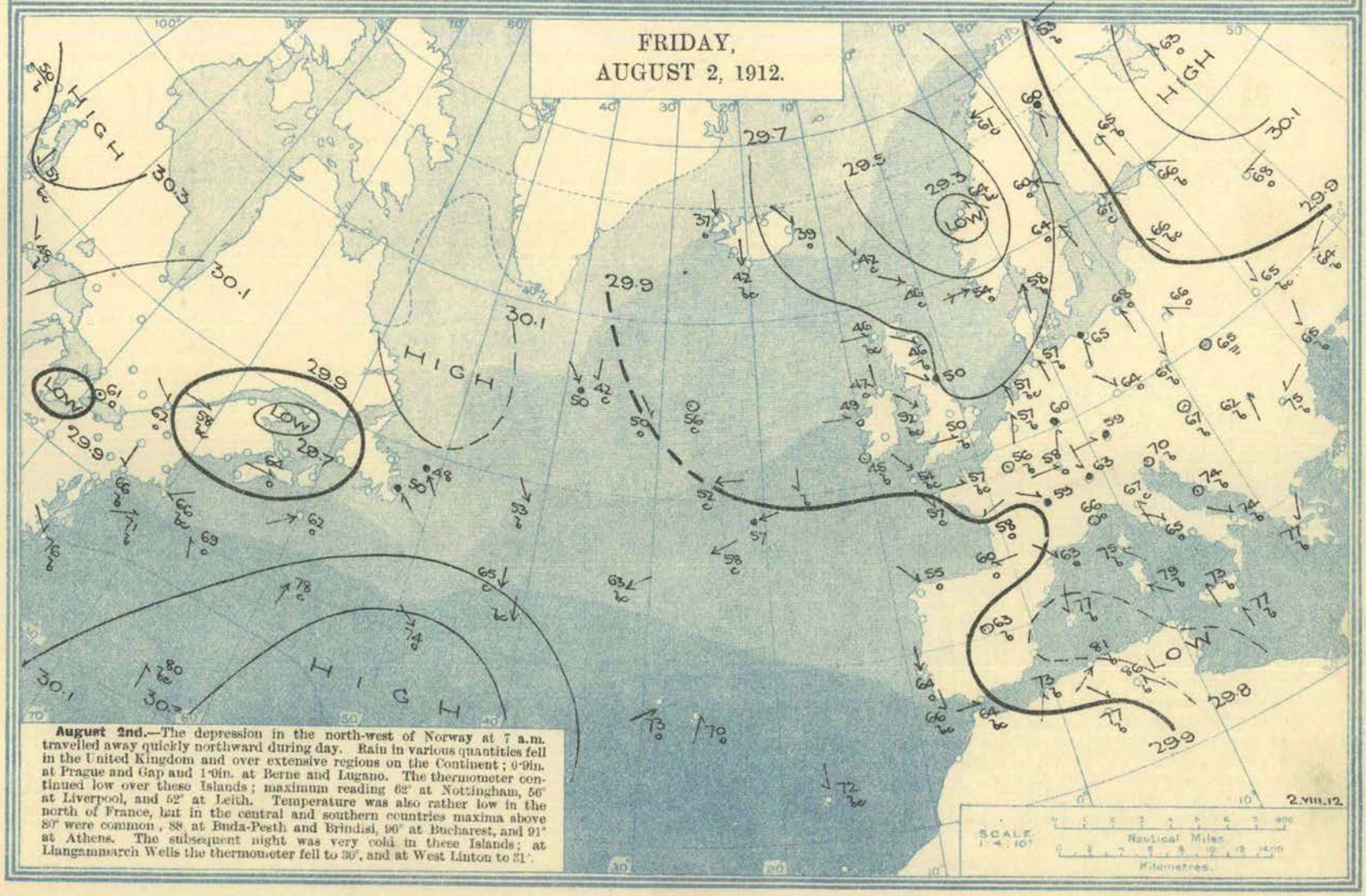
July 30th.—No important change occurred in the pressure distribution. Thunderstorms were experienced at some isolated stations in these Islands and rain, mostly slight, fell in most localities. Rain was experienced in various parts of France, the Netherlands, Russia and Scandinavia; 0·6in. at Boulogne, 0·8in. at Le Mans, and 1·3in. at Riga. In the United Kingdom the temperature remained below 70° very generally, and below 65° over a large area, but high readings were recorded on the Continent; 77° at Memel, 82° at Lemberg, 75° at Perpignan, 88° at Athens, and 91° at Brindisi.



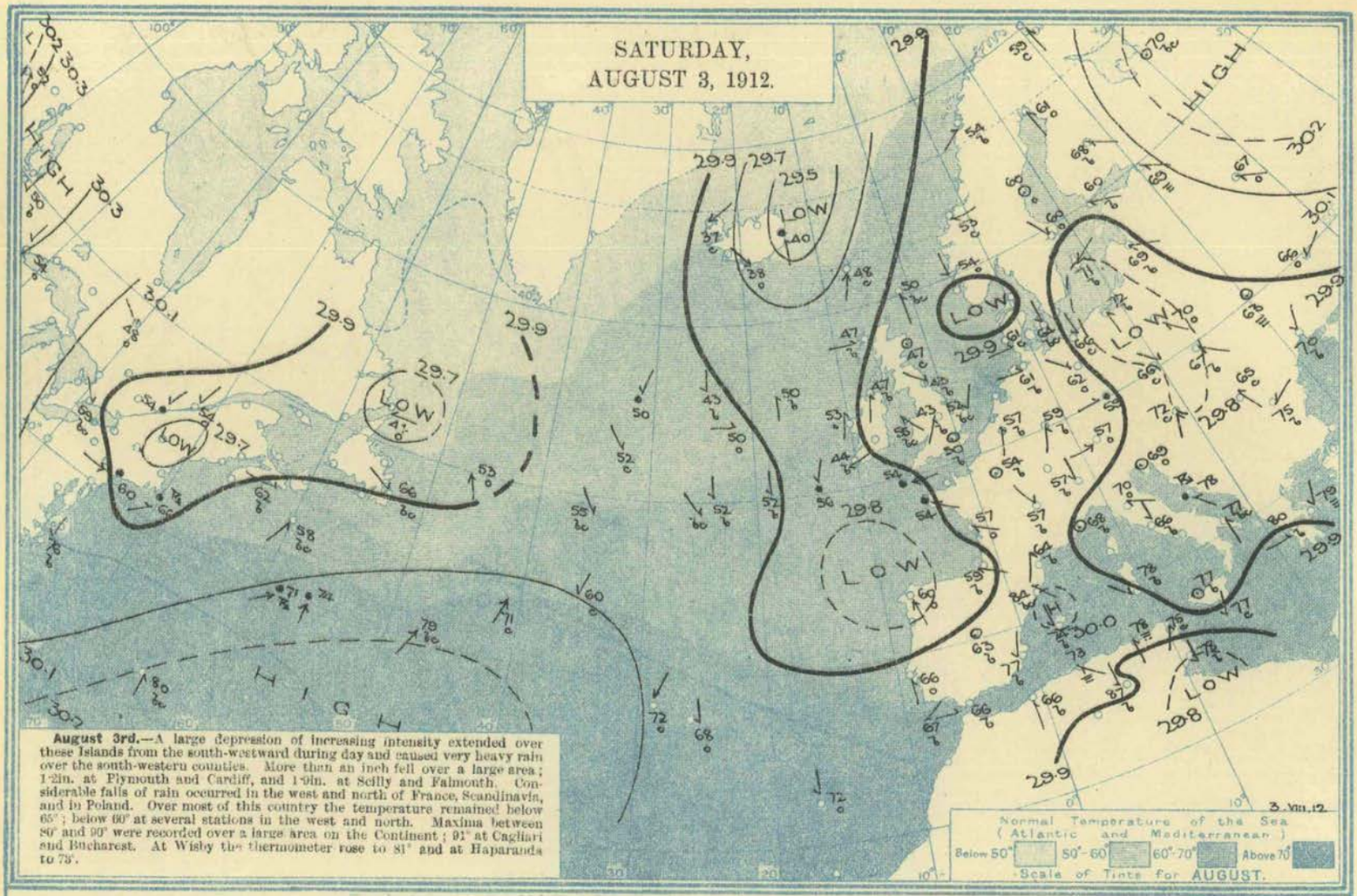
July 31st.—A depression of increasing intensity appeared over Wales from the south-westward, and the wind increased greatly in force from the south-west on the English Channel and the south-east coast. Considerable or heavy amounts of rain fell over these Islands; about 0·5in. in the south of Ireland, 0·7in. at Pembroke, 1·0in. at Liverpool, and 1·5in. at Holyhead. Heavy rain was experienced at many French stations; 0·9in. at Havre, 1·1in. at La Combre, and 1·4in. at Limoges. Low maximum temperature readings were general over these Islands, but on the Continent they were mostly high; above 80° over a large area



August 1st.—The North Sea depression moved north north-eastward during day, and the westerly wind decreased in force over England and the Channel. A gale from South set in on the south-west coast of Norway, and from North in Shetland. About an inch of rain fell at a few places in the north of England and smaller quantities in most parts of these Islands. Heavy rain was experienced at many stations over the south-west and east of France (1·1in. at Lyons) and also in Switzerland (1·5in. at Berne), and considerable falls in various parts of Germany and Scandinavia. Temperature remained low in this country, but rose to the normal or above it over the greater part of the Continent.

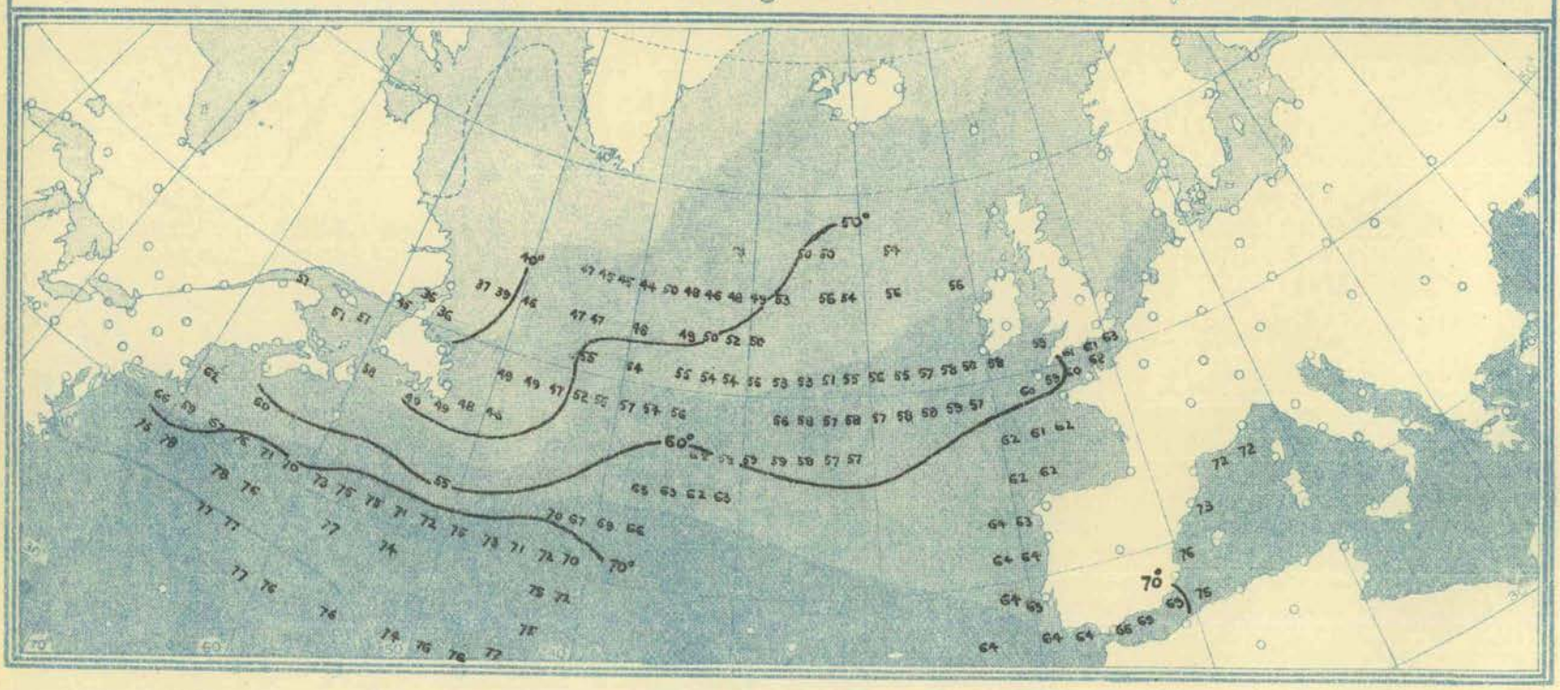


August 2nd.—The depression in the north-west of Norway at 7 a.m. travelled away quickly northward during day. Rain in various quantities fell in the United Kingdom and over extensive regions on the Continent; 0·9in. at Prague and Gap and 1·0in. at Berne and Lugano. The thermometer continued low over these Islands; maximum reading 62° at Nottingham, 56° at Liverpool, and 52° at Leith. Temperature was also rather low in the north of France, but in the central and southern countries maxima above 80° were common, 88° at Buda-Pesth and Brindisi, 90° at Bucharest, and 91° at Athens. The subsequent night was very cold in these Islands; at Llangammarch Wells the thermometer fell to 30°, and at West Linton to 31°.



August 3rd.—A large depression of increasing intensity extended over these Islands from the south-westward during day and caused very heavy rain over the south-western counties. More than an inch fell over a large area; 1·2in. at Plymouth and Cardiff, and 1·0in. at Scilly and Falmouth. Considerable falls of rain occurred in the west and north of France, Scandinavia, and in Poland. Over most of this country the temperature remained below 65°; below 60° at several stations in the west and north. Maxima between 80° and 90° were recorded over a large area on the Continent; 91° at Cagliari and Bucharest. At Wisby the thermometer rose to 81° and at Haparanda to 73°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 3RD AUGUST, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); → = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 125

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* } No. 32. THIRTY-SECOND WEEK, SUNDAY, AUGUST 4TH, TO SATURDAY, AUGUST 10TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The general condition was again very inclement. Rain fell daily in the south-east of England and on most days over the Kingdom as a whole. Thunderstorms occurred frequently in some parts of the country, and were fairly general over England on the 4th, 7th, 8th and 10th.

Temperature continued below the average, the deficit being more than 5° in Ireland, and about 4° over the southern and south-western counties of England. The highest of the maxima were registered on various dates, and ranged from 72° in England South-East, and 71° in England East to 65° in Scotland East and Ireland South. The lowest of the minima, which were also recorded on irregular dates, varied from 36° in Ireland North, and 37° in Scotland East and Ireland South to 46° in England South-East, and to 48° in the English Channel. The lowest grass readings were 32° at Markree Castle, 33° at Dublin and Crathes, and 34° at Balmoral. At 1 foot below the surface of the soil the temperature was considerably below the normal, and at nearly all places it was also below it at a depth of 4 feet.

Mean Temperature of the Sea was below the average very generally, and also lower than in the corresponding week of last year. The figures ranged from 65° at Eastbourne, and above 61° on some parts of the south-west coast of England to 53° at Wick, Aberdeen and Burnmouth.

Rainfall exceeded the average, and in Scotland East and most of the English districts the excess was very large. Falls of an inch or more in 24 hours were experienced in many parts of the Kingdom. On the 4th 1·4 in. fell at Douglas (I.M.) and Crieff, 1·5 in. at Dublin, 1·6 in. at Armagh and 1·7 in. at Crathes; on the 5th 1·9 in. at Newquay and Plymouth, and 2·0 in. at Scilly; on the 6th 1·2 in. at Arlington; on the 7th 1·3 in. at Killarney; and on the 8th 1·0 in. at Wick.

Bright Sunshine was much below the normal. The percentage of the possible duration ranged from 34 in the English Channel and 25 in England South-East to below 20 in Ireland, Scotland and the north-east of England, and to only 5 in Scotland East. In the last-mentioned district the mean daily duration was less than an hour, and in Scotland generally only about 2 hours, while it was less than 4 hours in all districts except the English Channel.

Barometer and Wind. Cyclonic disturbances from the Atlantic travelled over these Islands in a northerly or north-easterly direction, and as some of them were either rather deep on reaching this country, or increased in intensity subsequently, the accompanying winds were fresh or strong generally, and occasionally blew with the force of a gale. As a rule the direction was North-Westerly in Ireland, and Westerly to South-Westerly or Southerly in England, while in Scotland it was between South-East and North-East, or variable.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 127.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Heavy	Very heavy	Heavy	Heavy	Heavy	Very heavy	Moderate	Heavy	Very heavy	Heavy	Moderate	Very heavy
	Sunshine ...	Scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 10 weeks from June 2nd, 1912.	Warmth ...	0 * 4	0 * 5	2 * 4	4 * 3	3 * 4	3 * 4	2 * 3	2 * 4	1 * 5	0 * 5	0 * 6	2 * 4
	Rainfall ...	3 * 2	3 * 1	8 * 0	5 * 1	6 * 2	6 * 3	6 * 2	7 * 2	6 * 1	6 * 2	6 * 2	5 * 2
	Sunshine ...	1 * 5	0 * 9	0 * 8	2 * 4	0 * 6	0 * 5	1 * 5	1 * 7	1 * 7	1 * 6	1 * 8	0 * 6

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 **4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(25878—24.) Wt. 173—814. 450. 8/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.					
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*61*	*8th*	*41*	*4th*	*57·0*	*48·9*	*52·7*	—	*75*	*0*	•	•	54·8	•	•	•	*5*	*0·50*	—	*4·9*	—	*30*	—	*Baltasound.*
a Lerwick	60	8th	45	4th	57·4	50·3	53·6	+ 1·4	81	0	•	•	•	•	•	•	3	0·48	—	2·3	- 1·8	15	-11	Deerness.
a, Islands .. *a* Stornoway	61	6, 7, 8	41	4th	59·3	48·4	53·5	- 0·5	81	0	•	•	•	•	•	•	6	2·25	+ 1·36	2·4	- 2·0	15	-13	Stornoway.
a Castlebay, Barra Isd. .	*61*	*5, 7*	*48*	*4th*	*58·6*	*50·9*	*54·5*	*- 2·0*	*88*	*0*	•	•	•	•	•	•	*4*	*0·87*	—	*4·1*	—	*26*	—	*Castlebay.*
a Wick	57	6, 9	46	10th	55·6	49·6	52·4	- 2·0	73	0	•	•	•	•	•	•	5	1·54	+ 0·89	•	•	•	•	
b, Main- *p* Strathpeffer ..	64	6, 7	38	4th	60·6	47·3	53·6	- 1·9	81	0	•	•	•	•	•	•	7	0·95	+ 0·35	2·3	- 1·7	15	-11	Strathpeffer.
land. *p* Glencarron ..	64	5, 6	39	4th	58·3	46·2	51·9	- 1·8	69	0	•	•	•	•	•	•	5	1·82	+ 0·30	•	•	•	•	
p Fort Augustus..	66	5th	39	4th	59·4	47·4	53·0	- 2·7	77	0	•	•	•	•	•	•	6	0·82	+ 0·04	0·5	- 2·3	3	-16	Fort Augustus.
p Fort William ..	66	5th	42	4th	61·7	47·6	54·2	- 2·0	85	0	•	•	•	•	•	•	5	1·30	- 0·05	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	65	6th	43	4th	59·6	49·1	54·0	- 2·3	84	0	0	33	55·6	-3·7	54·5	-1·1	—	—	—	0·8	—	5	—	Crathes S.
a Nairn	64	5th	39	4th	59·3	45·9	52·2	- 4·0	71	0	•	•	•	•	•	•	7	1·62	+ 1·07	1·2	—	8	—	Nairn.
a Aberdeen ..	63	6th	44	4th	58·1	50·3	54·0	- 2·0	84	0	•	•	•	•	53·4	-0·7	6	2·83	+ 2·20	0·2	- 4·8	1	-31	Aberdeen.
a Balmoral ..	63	6th	37	4th	57·7	43·3	50·1	- 3·3	57	0	0	34	•	•	•	•	7	2·03	+ 1·26	•	•	•	•	Balmoral.
p Crieff	65	8th	44	9th	59·4	47·4	53·0	- 4·5	77	0	•	•	•	•	•	•	5	2·11	+ 1·24	0·3	—	2	—	Balruddery.
a Leith	64	8th	43	4th	60·7	48·9	54·5	- 3·5	88	0	•	•	•	•	•	•	5	1·64	+ 1·01	•	•	•	•	
p West Linton ..	62	6th	41	4th	58·7	45·8	51·8	- 3·1	69	0	•	•	•	•	•	•	5	1·20	—	*0·8*	—	*5*	—	*West Linton.*
p Marchmont ..	63	8th	41	6th	59·1	46·0	52·2	- 3·6	71	0	0	37	54·7	-4·5	•	•	5	1·56	+ 0·79	1·3	- 3·7	8	-24	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	65	8th	45	6th	60·7	49·0	54·5	- 2·3	88	0	0	40	54·4	-5·0	54·3	-2·0	5	1·70	+ 1·05	2·1	—	14	—	Cockle Park.
a Shields	67	8th	41	4th	60·6	48·6	54·2	- 3·5	85	0	•	•	•	•	•	•	3	1·05	+ 0·45	•	•	•	•	*Newcastle.*
p Durham	66	8th	42	6th	60·4	47·4	53·5	- 4·4	81	0	0	41	•	•	•	•	5	0·59	0·09	2·1	- 2·9	14	-19	Durham.
a, North .. *p* Rounton	67	8th	45	9th	62·1	48·4	54·8	- 2·5	90	0	0	39	57·1	•	•	•	4	0·29	- 0·35	•	•	•	•	Rounton.
a West Witton	*65*	*8th*	*46*	*4, 6, 9, 10*	*59·4*	*47·9*	*53·3*	—	*79*	*0*	0	42	56·1	•	•	•	*4*	*1·48*	—	•	•	•	•	*West Witton.*
p Scarborough	65	9, 10	44	4th	61·6	49·8	55·4	- 3·0	94	0	•	•	•	•	59·4†	•	3	0·51	- 0·09	1·4	—	9	—	Scarborough.
p York	67	8th	48	10th	63·6	50·7	56·8	- 2·4	104	0	•	•	58·7	-1·8	57·9	+0·9	5	1·06	+ 0·47	1·7	- 3·4	11	-23	York.
a Spurn Head	66	8th	50	4, 5, 10	62·7	50·9	56·5	- 2·9	102	0	0	42	57·6	-3·9	56·6	+0·5	4	1·13	+ 0·89	*0·9*	—	*6*	—	*Hull.*
b, South .. *a* Lincoln	68	4th	50	9, 10	64·4	51·0	57·3	- 2·4	107	0	•	•	57·8	-4·6	57·9	+0·7	5	0·43	- 0·09	•	•	•	•	Lincoln.
a Fulbeck	67	4th	49	10th	63·0	50·4	56·3	- 3·4	100	0	0	43	59·7	-5·4	57·4	-1·5	5	0·80	+ 0·25	3·7	•	25	•	Rauceby.
											•	•	•	•	•	•	—	—	—	3·8	—	25	—	Skegness.
3. ENGLAND, E.											0	47	61·1	-4·0	60·5	0·0	—	—	—	*3·9*	•	*26*	•	*Lowestoft.*
p Cromer	70	4th	49	8th	65·4	51·7	58·1	- 1·8	113	0	•	•	•	•	•	•	6	1·01	—	3·4	—	23	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	—	•	—	Hillington.
a, North .. *a* Yarmouth	68	4, 5	50	8th	65·6	52·6	58·7	- 1·6	117	0	•	•	61·0	-6·4	60·6	-1·7	4	0·73	+ 0·18	3·7	—	25	—	Yarmouth.
a Norwich	71	4th	50	8, 10	65·7	52·1	58·5	- 1·6	116	0	0	45	61·2	•	•	•	6	0·66	—	*3·8*	—	*25*	—	*Norwich.*
p Geldeston	70	4th	50	8, 10	66·0	52·3	58·7	- 1·0	117	0	•	•	•	•	•	•	4	0·77	+ 0·26	3·7	- 2·8	25	-19	Geldeston.
p Cambridge	71	4th	50	8, 10	65·7	51·9	58·4	- 1·4	115	0	0	45	60·4	-3·8	60·0	-0·4	6	0·59	+ 0·06	3·3	- 3·0	22	-20	Cambridge.
a Felixstowe	*68*	*4th*	*50*	*10th*	*64·6*	*54·4*	*59·2*	*- 1·9*	*120*	*0*	•	•	•	•	•	•	*4*	*1·33*	—	*4·1*	—	*27*	—	*Felixstowe.*
a Clacton-on-Sea ..	68	8th	50	10th	64·9	53·1	58·7	- 2·3	117	0	0	45	60·1	-2·2	59·6	-1·1	4	0·42	—	3·7	—	25	—	Clacton.
b, South .. *a* Rothamsted	69	4th	47	10th	63·7	51·1	57·0	- 2·5	105	0	•	•	•	•	•	•	7	1·53	+ 0·97	3·3	- 3·3	22	-22	Rothamsted.
a Shoeburyness	*70*	*4th*	*48*	*7th*	*65·6*	*53·7*	*59·3*	*- 3·2*	*121*	*0*	0	45	63·3	-4·0	•	•	*4*	*0·30*	*- 0·09*	*4·1*	—	*28*	—	*Southend.*
p Tottenham	69	4th	44	7th	64·0	52·1	57·7	- 4·0	110	0	0	45	•	•	61·3	-0·4	6	0·68	—	4·5	—	30	—	Tottenham.
4. MIDLAND COUNTIES.											0	44	56·8	-6·2	56·0	-0·7	—	—	—	*2·9*	—	*19*	—	*Huddersfield.*
a Harrogate	65	8th	46	4, 9, 10	60·3	47·4	53·5	- 4·0	81	0	0	43	55·5	-2·6	?	?	4	1·16	+ 0·54	2·6	—	17	—	Harrogate.
a Bawtry	65	4, 5, 6, 8	48	10th	63·1	50·0	56·2	- 3·4	99	0	0	44	58·3	•	57·3	•	6	1·00	+ 0·46	2·3	- 2·7	15	-20	Worksop.
p Buxton	*61*	*8th*	*45*	*10th*	*58·6*	*47·3*	*52·6*	*- 3·8*	*74*	*0*	0	41	56·6	-4·0	54·1	-0·7	*7*	*2·08*	*1·08*	*3·1*	—	*21*	—	*Buxton.*
a East .. *a* Nottingham	68	4th	43	4th	63·4	49·0	55·8	- 3·8	97	0	0	43	58·1	-4·4	58·4	-1·0	5	1·30	+ 0·75	3·1	—	21	—	Nottingham.
p Birmingham, Edgbsn.	66	4th	47	9th	61·7	49·4	55·2	- 3·5	92	0	0	39	53·7	-4·2	53·2	-0·5	7	1·54	+ 0·96	3·2	—	21	—	Birmingham.
a Raunds	70	4th	49	8, 10	66·2	50·7	58·0	- 2·4	112	0	0	46	60·4	•	58·5	•	7	0·97	—	•	•	•	•	Raunds.
a Oxford	69	4th	49	10th	63·9	51·0	57·1	- 3·5	106	0	•	•	•	•	•	•	6	1·51	+ 0·93	3·6	- 2·6	24	-19	Oxford.
a Cheadle	65	4th	44	10th	62·3	48·1	54·8	- 2·6	90	0	0	45	57·1	-3·6	55·9	-0·2	—	—	—	3·0	•	20	•	Sheffield.
p Shrewsbury	65	4, 6	46	9th	62·1	48·9	55·1	- 4·0	92	0	0	36	•	•	•	•	6	1·49	+ 0·74	•	•	•	•	Cheadle.
b, West .. *a* Hereford	67	8th	48	7th	62·9	50·1	56·1	- 3·3	99	0	0	44	•	•	•	•	6	2·19	—	•	•	•	•	Shrewsbury.
a Cirencester	67	4th	45	9th	62·4	48·4	55·0	- 3·5	91	0	0	45	57·6	•	57·1	•	7	1·77	+ 1·23	•	•	•	•	Hereford.
a Bath	69	4th	48	8, 9	64·7	50·4	57·1	- 2·9	106	0	•	•	60·5	-4·3	60·3	-1·1	7	1·29	+ 0·63	3·7	- 2·4	25	-16	Cirencester.
											•	•	•	•	•	•	6	1·65	+ 1·04	3·7	•	25	—	Bath.
5. ENGLAND, S.E.											•	•	•	•	•	•	—	—	—	•	•	•	•	Canterbury.
p Kew	70	4th	49	10th	64·9	53·3	58·8	- 2·4	118	0	0	40	59·9	-3·6	58·8	-0·1	7	1·60	+ 1·10	3·9	- 2·4	26	-17	Kew.
a Marlborough ..	65	4th	47	9, 10	61·9	49·3	55·2	- 3·6	92	0	0	42	57·9	•	57·0	•	7	1·42	+ 0·86	2·5	- 3·4	17	-23	Marlborough
a Margate	72	4th	49	10th	65·1	51·1	57·7	- 4·2	110	0	•	—	59·9	-3·9	59·1	-0·8	5	1·12	+ 0·67	2·3	- 4·1	15	-28	Margate.
a Wisley, Surrey ..	68	4th	48	10th	63·7	51·7	57·3	- 4·4	107	0	0	45	61·3	-2·7	60·2	-0·4	7	1·58	—	3·7	—	25	—	Wisley
a Swarraton	65	4th	46	9, 10	62·6	49·6	55·7	- 3·6	96	0	0	42	61·2	-4·5	60·8	-0·2	7	1·38	+ 0·79	4·2	—	28	—	Worthing.
a Tunbridge Wells ..	70	4th	46	10th	63·4	50·4	56·5	- 3·6	102	0	0	40	60·6	-4·6	•	•	7	1·77	+ 1·27	4·7	- 1·8	32	-12	Tunbridge Wells.
a Dungeness	69	4th	50	9th	63·7	54·3	58·7	- 2·3	117	0	•	•	•	•	•	•	6	1·17	+ 0·74	4·2	—	28	—	Littlestone.
p Hastings..	68	4th	49	9, 10	63·1	53·0	57·8	- 3·4	111	0	0	44	62·5	•	61·9	•	7	1·66	+ 1·13	*4·0*	- *3·2*	*27*	- *22*	*Hastings.*
p Southampton	66	4, 7	47	9th	63·3	52·1	57·4	- 4·9	108	0	0	42	•	•	•	•	7	1·31	+ 0·74	3·7	- 3·2	25	- 22	Southampton.
a Ventnor	64	4th	50	9th	62·7	53·6	57·9	- 4·3	111	0	0	42	•	•	•	•	6	0·41	- 0·06	4·1	- 2·7	28	-18	Ventnor.
											0	47	60·7	-5·9	61·0	-1·1	—	—	—	*4·6*	—	*31*	—	*Portsmouth.*
											•	•	61·4	•	61·1	•	—	—	—	4·6	- 2·5	31	-17	Eastbourne.
											•	•	59·8	•	60·4	•	—	—	—	*3·8*	—	*26*	—	*Bournemouth.*
LONDON.											•	•	•	•	61·8	•	—	—	—	*3·4*	- *3·9*	*23*	- *26*	*Brighton.*
a Westminster	*70*	*4th*	*50*	*10th*	*65·3*	*53·9*	*59·3*	*- 2·0*	*121*	*0*	0	49	•	•	•	•	7	*0·92*	+ *0·40*	*3·7*	- *2·6*	*25*	- *13*	*Westminster.*
a Greenwich	*73*	*4th*	*48*	*10th*	*68·4*	*52·1*	*59·8*	*- 2·9*	*125*	*0*	0	40	•	•	•	•	7	*0·93*	+ *0·42*	*4·2*	- *3·0*	*28*	- *20*	*Greenwich.*
a Hampstead	*68*	*4th*	*49*	*10th*	*63·3*	*51·4*	*57·0*	—	*105*	*0*	0	36	•	•	•	•	7	*0·74*	—	*3·8*	—	*26*	—	*Hampstead.*
a Camden Square ..	*73*	*4th*	*49*	*10th*	*68·3*	*52·1*	*59·7*	—	*124*	*0*	0	46	•	•	•	•	7	*1·17*	—	*3·6*	—	*24*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	63	7th	44	4, 10	59·4	47·9	53·3	- 3·8	79	0	•	•	•	•	•	•	3	1·10	+ 0·07	•	•	•	•	
p Glasgow	62	6, 8	46	10th	59·5	49·3	54·1	- 2·6	85	0	0	37	•	•	•	•	3	1·54	+ 0·69	1·7	- 2·7	11	-17	Glasgow.
p Rothesay	63	10th	44	10th	60·7	48·3	54·1	- 2·9	85	0	•	•	•	•	55·2	+0·2	4	0·51	- 0·55	•	•	•	•	
a Kilmarnock	63	6th	40	10th	61·0	46·1	53·1	- 4·0	78	0	•	•	•	•	•	•	4	0·39	—	*2·4*	—	*16*	—	*Kilmarnock.*
a Colmonell	64	6, 7	43	8th	60·9	48·3	54·2	- 2·9	85	0	0	40	•	•	•	•	6	1·83	+ 0·94	•	•	•	•	
p Dumfries	68	4th	46	6th	62·1	48·7	55·0	- 2·9	91	0	0	40	57·7	•	58·4	•	5	1·67	+ 0·82	*1·4*	—	*9*	—	*Dumfries.*
p Cally, Gatehouse ..	66	8th	42	10th	62·0	46·9	54·0	- 2·6	84	0	•	•	•	•	•	•	4	0·37	- 0·63	•	•	•	•	
b I. OF MAN.																								
p Douglas	61	7th	45	10th	58·9	49·4	53·9	- 3·0	83	0	0	43	•	•	•	•	5	1·56	+ 0·69	2·6	- 3·3	17	-21	Douglas.
											0	37	56·2	-3·7	55·6	-0·1	—	—	—	*2·4*	—	*16*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											0	45	•	•	•	•	—	—	—	4·2	•	28	•	Hoylake.
p Aspatria	64	8th	42	6th	60·1	48·1	53·7	- 3·0	82	0	0	39	57·2	•	55·6	•	6	0·95	- 0·01	2·8	—	18	—	Aspatria.
p Newton Rigg	64	8th	44	6th	59·7	47·9	53·5	- 2·6	81	0	0	35	57·0	-3·6	55·6	-0·9	7	1·10	+ 0·34	2·1	- 3·0	14	-30	Newton Rigg.
p Stonyhurst	65	4th	47	10th	60·6	49·3	54·6	- 3·1	88	0	0	42	•	•	•	•	7	1·80	+ 0·75	2·4	- 2·7	16	-18	Stonyhurst.
p Blackpool	67	4th	46	10th	61·6	50·3	55·6	- 3·1	95	0	0	40	57·8	•	56·5	•	5	0·65	- 0·11	3·6	- 1·9	24	-13	Blackpool.
p Manchester (Whit. Pk.)	*64*	*4, 5, 6*	*49*	*10th*	*62·1*	*51·2*	*56·3*	—	*100*	*0*	0	53	•	•	•	•	4	0·39	—	*2·6*	—	*17*	—	*Whit Park.*
a Liverpool (Bidston) ..	66	4th	48	10th	61·4	50·6	55·7	- 3·0	96	0	•	•	•	•	•	•	6	1·17	+ 0·50	*4·0*	—	*27*	—	*Liverpool.*
a Hawarden Bridge ..	68	4th	49	6th	63·0	51·0	56·6	- 3·4	102	0	0	43	59·4	-4·8	59·7	-1·7	5	0·35	- 0·28	*3·7*	- *2·1*	*25*	- *14*	*Southport.*
											0	48	58·7	-3·1	59·6	+0·6	—	—	—	*2·0*	•	*13*	•	*Manchester (City)*
b, NORTH WALES.																								
p Llandudno	63	7th	50	6, 7, 10	61·4	51·1	55·9	- 3·5	97	0	•	•	•	•	•	•	6	1·02	+ 0·39	2·7	- 2·9	18	-19	Llandudno.
a Holyhead	63	6, 7	50	5, 6, 9, 10	60·7	51·0	55·6	- 2·9	95	0	•	•	•	•	•	•	6	0·84	+ 0·18	3·6	—	24	—	Aberdovey.
p Bettws-y-Coed ..	63	4, 6	46	6, 9	60·9	48·7	54·4	- 4·6	87	0	0	45	55·3	-3·3	55·3	-0·2	6	1·74	—	2·5	—	17	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	.°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·7	—	25	—	Aberystwyth.
a Llangammarch Wells	64	4th	45	9th	60·9	47·4	53·8	− 3·4	83	0	0	38	56·2	−3·3	54·9	−0·5	7	3·02	—	2·7	—	18	—	Llangammarch
a Pembroke	62	4th	50	4, 5	59·7	51·6	55·4	− 3·2	94	0	•	•	•	•	•	•	4	1·44	+ 0·81	2·2	− 4·2	15	−28	Pembroke.[Wells
p Cardiff	67	4th	47	9th	62·9	49·7	55·9	− 4·5	97	0	0	42	58·6	−4·3	58·5	−0·9	6	1·26	+ 0·35	*2·7*	—	*18*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	69	4th	50	7, 9	63·3	51·4	57·0	− 4·3	105	0	0	45	•	•	•	•	6	1·47	+ 0·73	*3·6*	—	*24*	—	*Clifton.*
a Shaftesbury	65	8th	45	9th	61·0	47·4	53·8	− 5·5	83	0	•	•	57·1	•	58·3	•	7	1·89	+ 1·23	•	•	•	•	Shaftesbury.
a Arlington	65	4th	42	6th	60·6	48·3	54·1	− 3·8	85	0	•	•	57·9	•	•	•	7	3·20	+ 2·13	3·0	− 3·7	20	−25	Newquay.
a Cullompton	67	4th	41	9th	64·3	49·1	56·2	− 3·5	99	0	0	40	58·8	•	•	•	7	1·38	+ 0·71	2·5	− 3·4	17	−23	Cullompton.
a Portland	63	4th	53	6, 7, 8	60·9	53·9	57·2	− 3·5	106	0	•	•	•	•	•	•	6	1·18	—	*4·2*	—	*28*	—	*Weymouth.*
p Plymouth	63	8th	45	9th	60·9	51·3	55·8	− 4·9	97	0	0	38	58·5	−7·2	•	•	6	2·42	+ 1·78	2·7	− 3·8	18	−26	Plymouth.
p Falmouth	60	5, 6, 8, 9	48	9th	59·6	51·1	55·1	− 5·0	92	0	•	•	•	•	•	•	5	1·71	+ 0·99	3·9	− 3·2	27	−22	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	60	6th	46	4, 10	57·3	48·0	52·4	− 4·1	73	0	•	•	•	•	•	•	7	1·27	+ 0·49	•	•	•	•	• •
a Blacksod Point ..	60	4, 7	45	4th	58·3	48·4	53·1	− 4·3	78	0	•	•	•	•	•	•	3	0·42	− 0·58	•	•	•	•	• •
p Markree Castle ..	66	6th	36	4th	59·7	42·6	50·6	− 5·9	60	0	0	32	57·7	•	55·7	•	6	0·90	− 0·04	3·7	− 0·5	24	− 3	Markree Castle.
a Birr Castle	65	6th	40	9th	58·7	44·1	51·0	− 6·9	63	0	•	•	•	•	•	•	6	1·00	+ 0·17	*3·3*	*− 1·3*	*22*	*− 9*	*Birr Castle.*
b, East .. { *p* Armagh	64	7th	44	9, 10	59·0	46·1	52·2	− 4·8	71	0	0	36	57·4	−4·6	56·7	−1·6	6	1·90	+ 1·06	1·7	− 2·6	11	−17	Armagh.
a Donaghadee	61	5, 7	46	4, 9	59·0	49·9	54·2	− 3·3	85	0	•	•	•	•	•	•	2	2·30	+ 1·55	•	•	•	•	• •
											0	37	57·2	−5·5	56·9	−1·5	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	33	•	•	•	•	—	—	—	2·2	− 3·1	15	−21	Phœnix Park.
a. East .. { *p* Dublin, City	62	7th	45	9th	59·6	49·1	54·0	− 5·7	84	0	0	43	•	•	•	•	6	1·80	+ 1·10	•	•	•	•	Dublin City.
a Kilkenny	62	6, 7, 10	37	9th	59·9	46·3	52·7	− 5·6	75	0	•	•	•	•	•	•	6	1·09	+ 0·32	•	•	•	•	• •
a Waterford	64	6th	42	9th	60·4	47·7	53·7	− 5·2	82	0	•	•	•	•	•	•	5	1·31	+ 0·48	•	•	•	•	• •
b, West .. { *a* Birr Castle	65	6th	40	9th	58·7	44·1	51·0	− 6·9	63	0	•	•	•	•	•	•	6	1·00	+ 0·17	3·3	− 1·3	22	− 9	Birr Castle.
a Foynes	60	4, 5, 6	43	9th	58·3	47·4	52·5	− 6·1	74	0	•	•	•	•	•	•	6	0·33	− 0·56	•	•	•	•	• •
a Cahir	63	5, 7	40	6, 9	61·1	45·4	52·8	− 5·7	76	0	•	•	•	•	•	•	5	0·49	—	•	•	•	•	• •
a Killarney	63	4th	41	4th	59·9	46·5	52·8	− 5·5	76	0	•	•	•	•	•	•	7	2·37	+ 1·38	•	•	•	•	• •
a Valencia	59	4th	43	9th	57·9	48·0	52·7	− 5·9	75	0	•	•	•	•	•	•	6	0·87	− 0·13	3·9	− 1·1	26	− 7	Valencia.
a Roche's Point ..	61	8, 10	45	6th	59·6	48·6	53·8	− 5·1	83	0	•	•	•	•	•	•	7	0·24	− 0·59	2·0	•	13	•	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	62	9th	49	9th	60·1	51·4	55·5	− 5·2	95	0	•	•	•	•	•	•	6	2·39	+ 1·84	3·7	− 3·6	25	−25	Scilly.
a Jersey, St. Aubins ..	67	8th	49	9th	63·7	53·0	58·0	− 4·6	112	0	•	•	•	•	•	•	5	1·31	+ 0·77	5·5	− 2·4	37	−16	St. Heliers.
a Guernsey (Villa Carey)	65	5, 9	48	9th	62·3	51·7	56·7	− 4·8	103	0	0	43	61·1	−4·0	61·6	−0·1	6	1·88	+ 1·30	5·9	− 2·2	40	−15	Guernsey.*

Additional Sunshine Means:—*Bognor, 4·3 hrs. 29 °/₀; Ramsgate, 3·5 hrs. 24 °/₀; Rhyl, 3·8 hrs. 25 °/₀; Salcombe, 3·9 hrs. 27 °/₀; Tenby, 2·8 hrs. (−3·7) 19 °/₀ (− 25 °/₀); Torquay, 3·5 hrs. (−3·4) 24 °/₀ (−23 °/₀).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 10th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	—			°	°	°	—
SCOTLAND, N. ..	Lerwick					SCOTLAND, W. ..	Lamlash	58	52	54·6	−1·4
	Kirkwall	62?	59?	59·9?	+3·9?		Ballantrae	59	54	56·0	−0·6
	Wick	53	53	53·0	−0·2	ENGLAND, N.W. ..	Port Erin	57	54	56·0	−1·1
SCOTLAND, E. ..	Cromarty	58	55	56·0	−0·9		Newquay	59	59	59·0	−2·8
	Pennan Bay	55	54	55·0	−1·7	ENGLAND, S.W. ..	Scilly	58	57	57·4	—
	Aberdeen, Cove Bay	54	53	53·2	−2·2		Plymouth‡	61	59	59·5	−1·7
ENGLAND, N.E. ..	Burnmouth, Berwick	53	52	52·7	−2·4		Salcombe	59	56	57·5	−2·0
	Scarborough	58	56	57·1	−0·7	IRELAND, N.W. ..	Sheephaven	59	55	57·0	−2·7
ENGLAND, E. ..	Shipwash Lightship	66	60	63·2	+0·5		Teelin	57	55	56·2	−5·4
	Margate‡	64	61	62·3	−2·8	IRELAND, S.W. ..	Cleggan	58	56	56·6	−1·3
ENGLAND, S.E. ..	Eastbourne‡	63	61	61·7	−2·4	IRELAND, E.	Seafield	63	53	57·1	−4·6
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-SECOND WEEK—August 4th to August 10th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	66	38	58·9	48·1	53·2	− 1·6	78	− 12	0	0	5	0	1·31	+0·38	1·9	−1·8	12	−12
Eastern.																		
1. SCOTLAND, EAST ...	65	37	59·1	47·1	52·7	− 3·5	75	− 25	0	0	6	+ 2	1·93	+1·22	0·8	−4·1	5	−26
2. ENGLAND, N.E.	68	41	62·1	49·6	55·5	− 2·9	95	− 20	0	0	4	+ 1	0·84	+0·24	2·5	−2·9	16	−19
3. ENGLAND, EAST ...	71	44	65·1	52·1	58·2	− 2·0	113	− 15	0	0	5	+ 2	0·80	+0·31	3·7	−2·5	24	−17
4. MIDLAND COUNTIES ...	70	43	63·0	49·4	55·8	− 3·6	97	− 25	0	0	6	+ 3	1·44	+0·90	3·2	−2·4	21	−16
5. ENGLAND, S.E.	72	46	63·4	51·8	57·3	− 4·0	107	− 28	0	0	7	+ 4	1·34	+0·88	3·8	−2·7	25	−18
Western.																		
6. SCOTLAND, WEST ...	68	40	60·6	48·1	54·0	− 2·8	84	− 20	0	0	4	0	1·12	+0·12	2·2	−3·0	14	−19
7. ENGLAND, N.W.	68	42	61·0	49·8	55·1	− 3·5	92	− 24	0	0	6	+ 2	1·07	+0·30	3·0	−2·3	20	−15
8. ENGLAND, S.W.	69	41	61·4	50·1	55·4	− 4·2	94	− 29	0	0	6	+ 2	1·90	+1·25	3·0	−3·2	20	−22
9. IRELAND, NORTH ...	66	36	58·7	46·5	52·2	− 5·1	71	− 36	0	0	5	+ 1	1·30	+0·41	2·7	−1·6	18	−10
10. IRELAND, SOUTH ...	65	37	59·5	47·0	52·9	− 5·9	76	− 43	0	0	6	+ 2	1·07	+0·15	2·9	−2·3	19	−15
11. ENGLISH CHANNEL ...	67	48	62·0	52·0	56·7	− 4·1	103	− 35	0	0	6	+ 2	1·86	+1·30	5·0	−3·1	34	−21

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 10 Weeks, June 2nd to Aug. 10th, 1912.

0. SCOTLAND, NORTH ...	74	35	*	*	*	*	799	− 49	0	− 2	42	0	7·53	−0·01	3·4	−1·1	20	− 6
Eastern.																		
1. SCOTLAND, EAST ...	87	31	*	*	*	*	858	− 98	0	− 1	44	+ 8	7·78	+1·67	2·6	−2·7	17	−16
2. ENGLAND, N.E.	86	35	*	*	*	*	1021	− 53	0	0	49	+18	9·87	+4·73	3·7	−2·4	22	−15
3. ENGLAND, EAST ...	91	38	*	*	*	*	1248	+ 42	0	0	39	+ 9	6·15	+1·21	5·8	−0·9	36	− 6
4. MIDLAND COUNTIES ...	88	35	*	*	*	*	1112	− 64	0	0	44	+14	9·42	+4·25	4·3	−1·7	27	−11
5. ENGLAND, S.E.	88	34	*	*	*	*	1222	− 43	0	0	38	+10	6·77	+2·11	5·9	−1·0	37	− 6
Western.																		
6. SCOTLAND, WEST ...	83	35	*	*	*	*	971	− 43	0	0	43	+ 6	9·50	+1·73	4·4	−1·4	27	− 9
7. ENGLAND, N.W.	84	34	*	*	*	*	1053	− 59	0	0	47	+13	10·19	+3·85	4·4	−1·7	27	−10
8. ENGLAND, S.W.	88	30	*	*	*	*	1096	− 77	0	0	47	+14	11·35	+5·26	4·8	−1·7	30	−11
9. IRELAND, NORTH ...	75	33	*	*	*	*	876	−148	0	0	47	+ 5	10·00	+2·90	4·3	−0·6	26	− 4
10 IRELAND, SOUTH ...	79	33	*	*	*	*	977	−157	0	0	52	+16	11·83	+5·01	4·6	−0·9	29	− 5
11. ENGLISH CHANNEL ...	82	45	*	*	*	*	1182	− 82	0	0	45	+12	9·61	+4·76	6·2	−1·8	40	−12

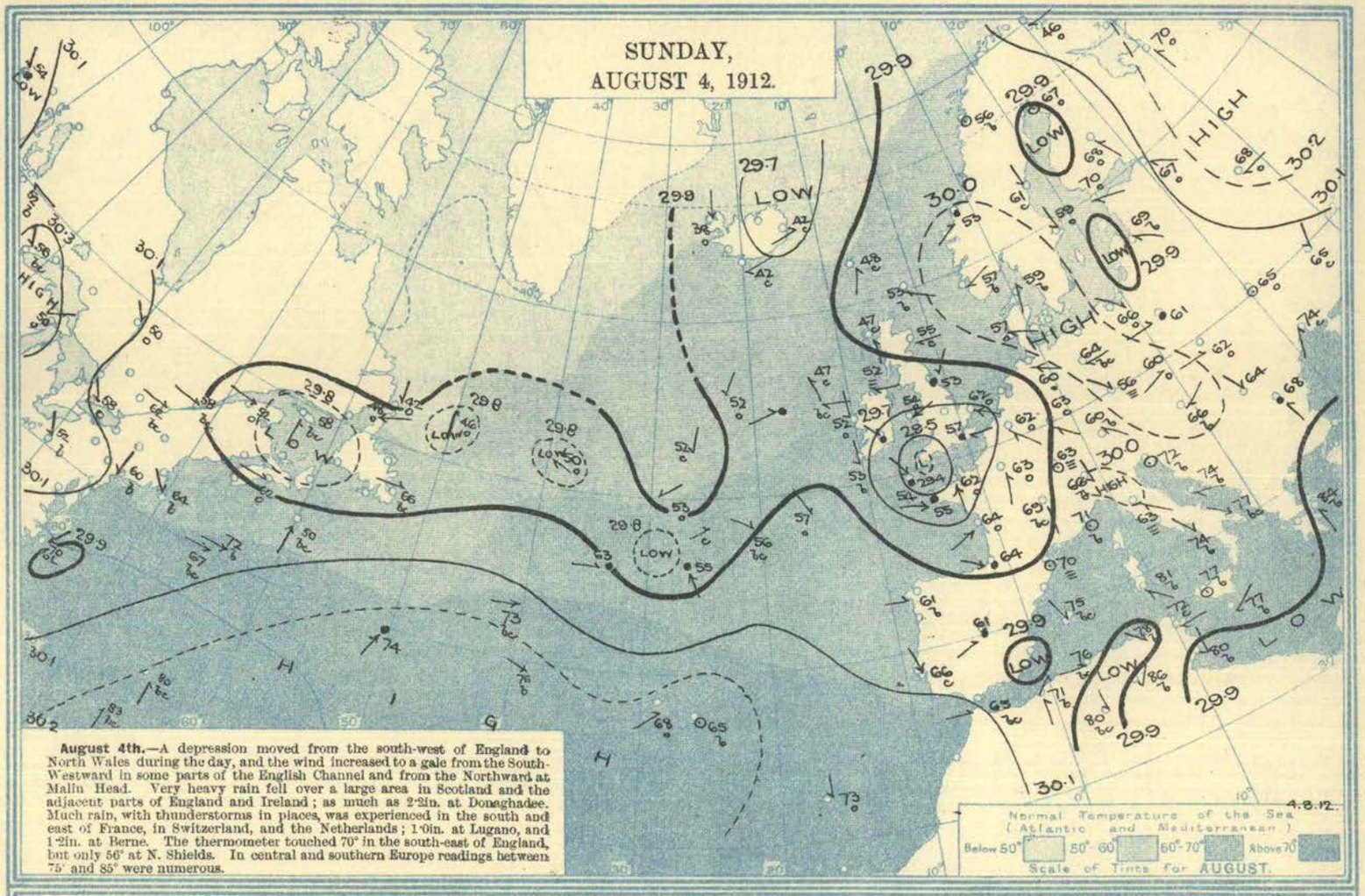
THE YEAR.—Aggregates, &c., for the Period of 32 Weeks, December 31st, 1911, to August 10th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1,287	− 9	427	−130	146	0	27·75	−0·63	3·3	−0·3	25	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1,464	− 23	519	−101	134	+14	18·34	+0·97	3·3	−1·0	25	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	1,728	+102	373	−102	128	+20	19·53	+5·91	3·5	−1·1	27	− 8
3. ENGLAND, EAST ...	91	14	*	*	*	*	2,129	+232	274	−247	116	+11	14·37	+1·11	4·5	−0·4	34	− 3
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	1,964	+ 69	373	−160	120	+16	21·40	+6·52	3·7	−0·7	28	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	2,143	+111	218	−163	112	+13	17·55	+3·28	4·6	−0·4	36	− 3
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1,621	+ 15	329	− 96	133	+ 7	26·51	+0·92	3·8	−0·6	29	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	1,791	+ 55	298	− 88	128	+13	22·45	+3·82	3·9	−0·5	30	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	1,971	+ 33	189	−112	137	+24	27·63	+7·46	4·0	−0·9	31	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	1,621	− 63	237	−108	130	− 7	23·21	+2·15	3·6	−0·4	27	− 3
10. IRELAND, SOUTH ...	79	13	*	*	*	*	1,898	− 55	167	− 92	153	+31	27·73	+5·39	3·7	−0·8	28	− 6
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2,379	+196	44	− 65	133	+13	23·11	+6·34	5·1	−0·8	40	− 6

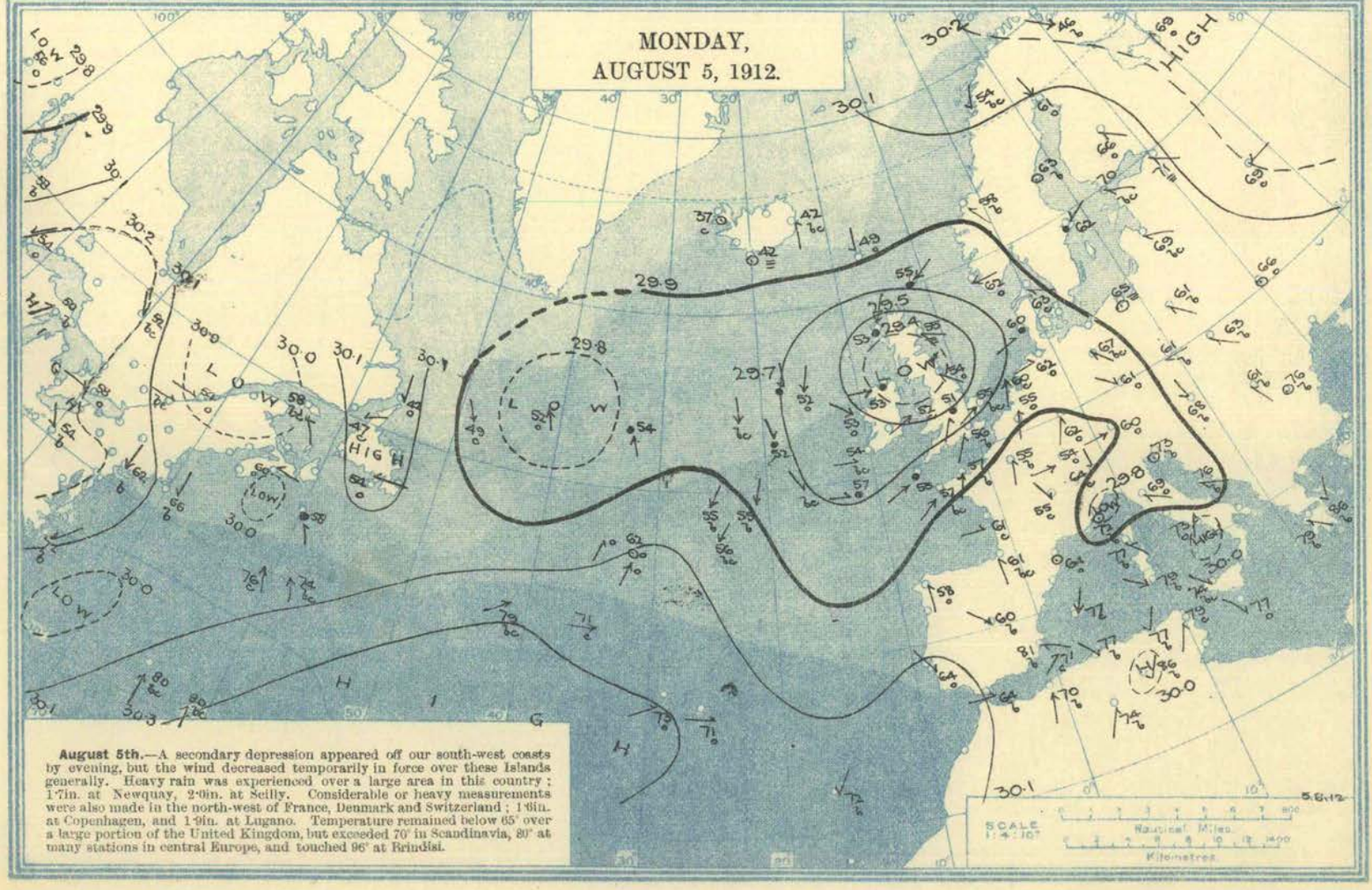
M.O., August 14, 1912.

NOTES ON TABLE IV.

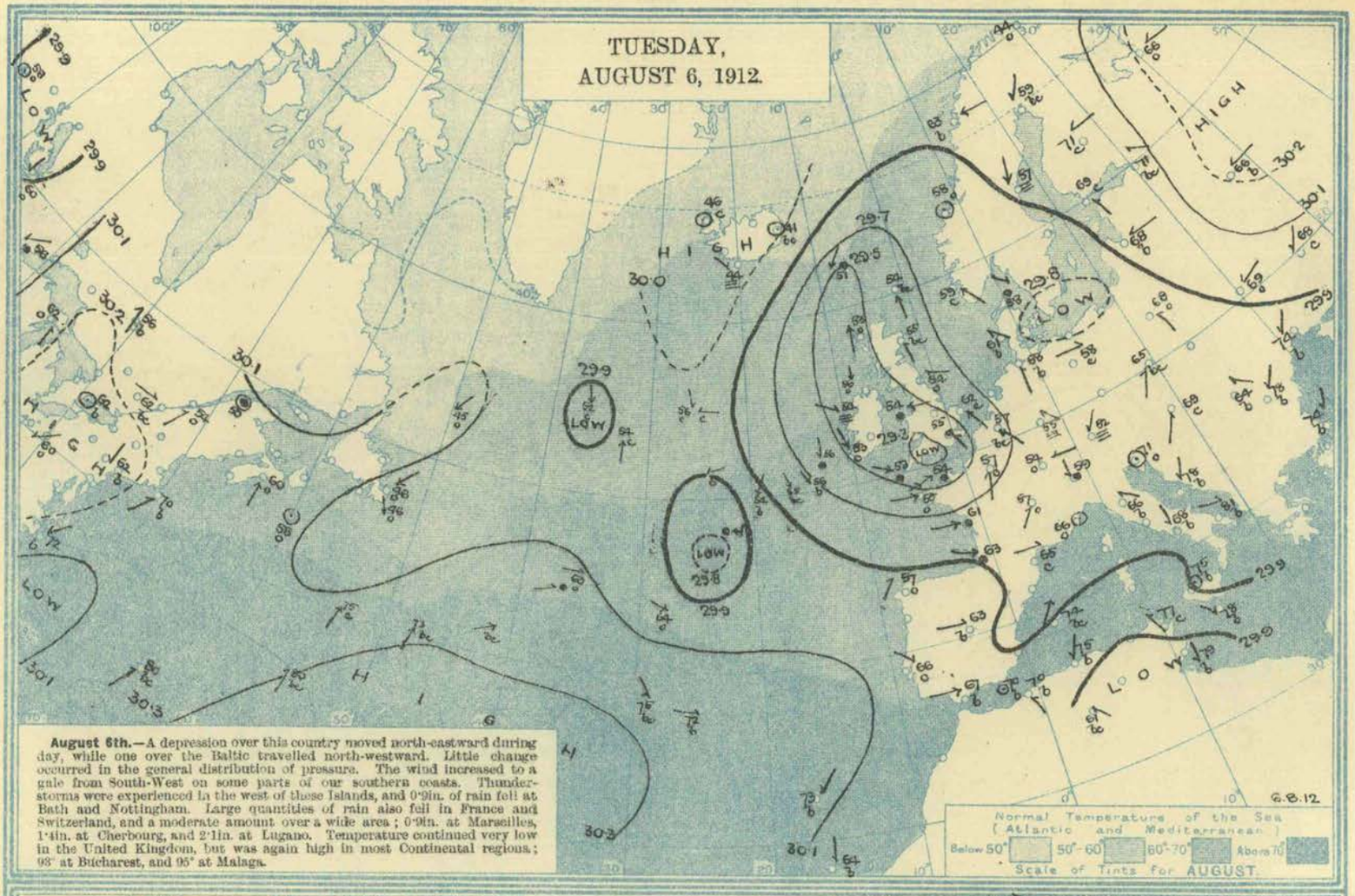
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



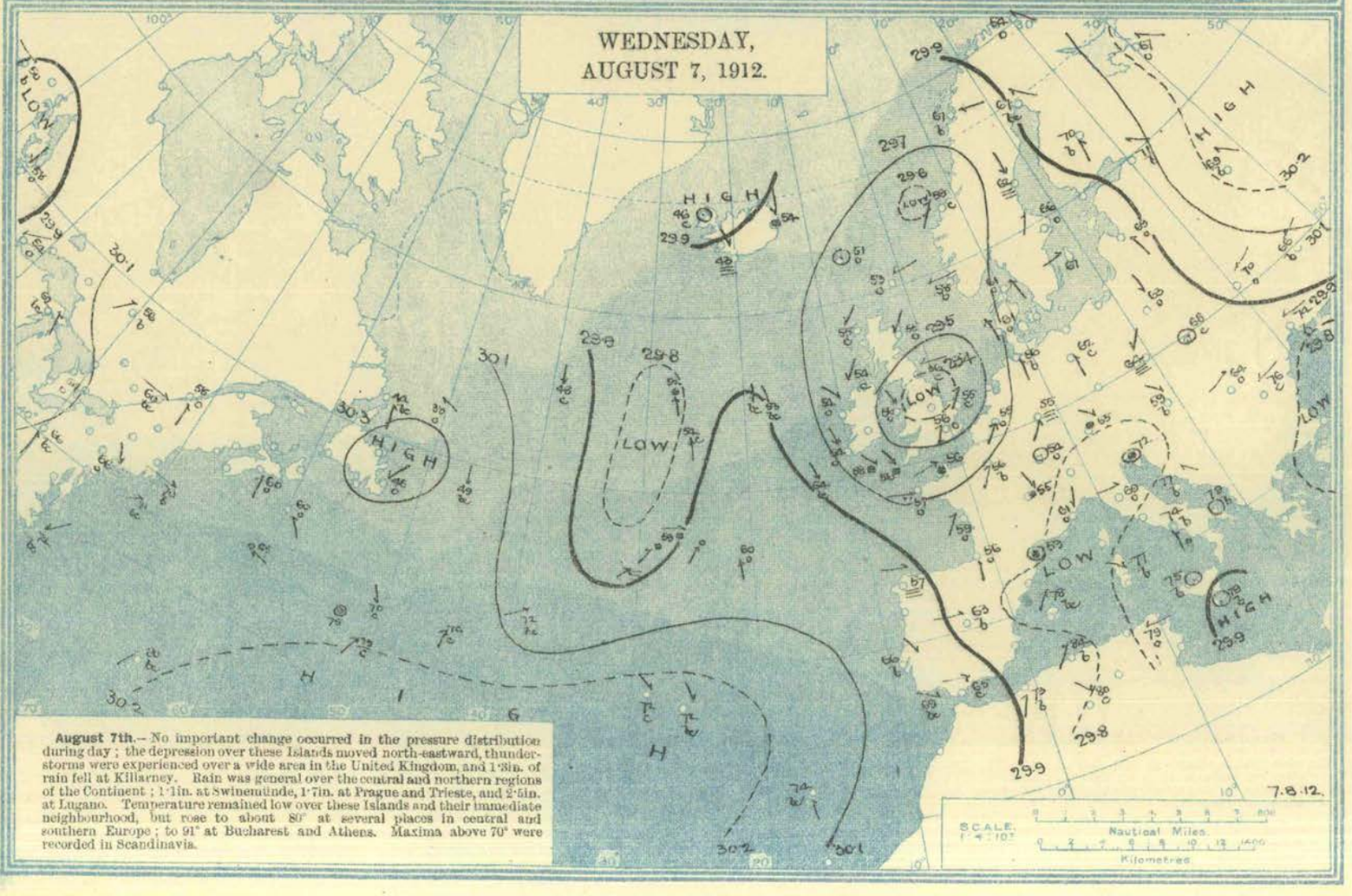
August 4th.—A depression moved from the south-west of England to North Wales during the day, and the wind increased to a gale from the South-Westward in some parts of the English Channel and from the Northward at Malin Head. Very heavy rain fell over a large area in Scotland and the adjacent parts of England and Ireland; as much as 2·2in. at Donaghadee. Much rain, with thunderstorms in places, was experienced in the south and east of France, in Switzerland, and the Netherlands; 1·0in. at Lugano, and 1·2in. at Berne. The thermometer touched 70° in the south-east of England, but only 56° at N. Shields. In central and southern Europe readings between 75° and 85° were numerous.



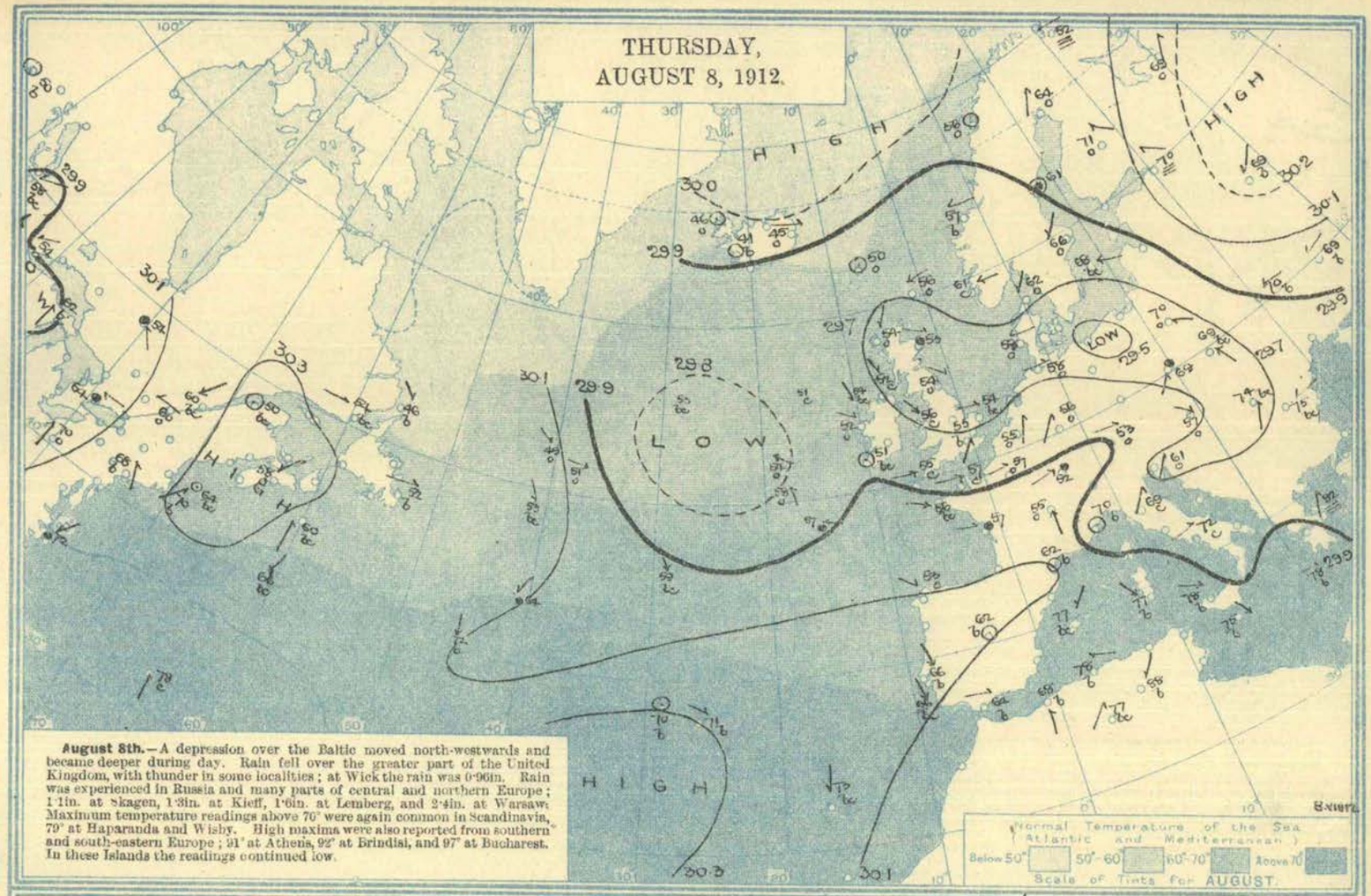
August 5th.—A secondary depression appeared off our south-west coasts by evening, but the wind decreased temporarily in force over these Islands generally. Heavy rain was experienced over a large area in this country; 1·7in. at Newquay, 2·0in. at Scilly. Considerable or heavy measurements were also made in the north-west of France, Denmark and Switzerland; 1·6in. at Copenhagen, and 1·9in. at Lugano. Temperature remained below 65° over a large portion of the United Kingdom, but exceeded 70° in Scandinavia, 80° at many stations in central Europe, and touched 96° at Brindisi.



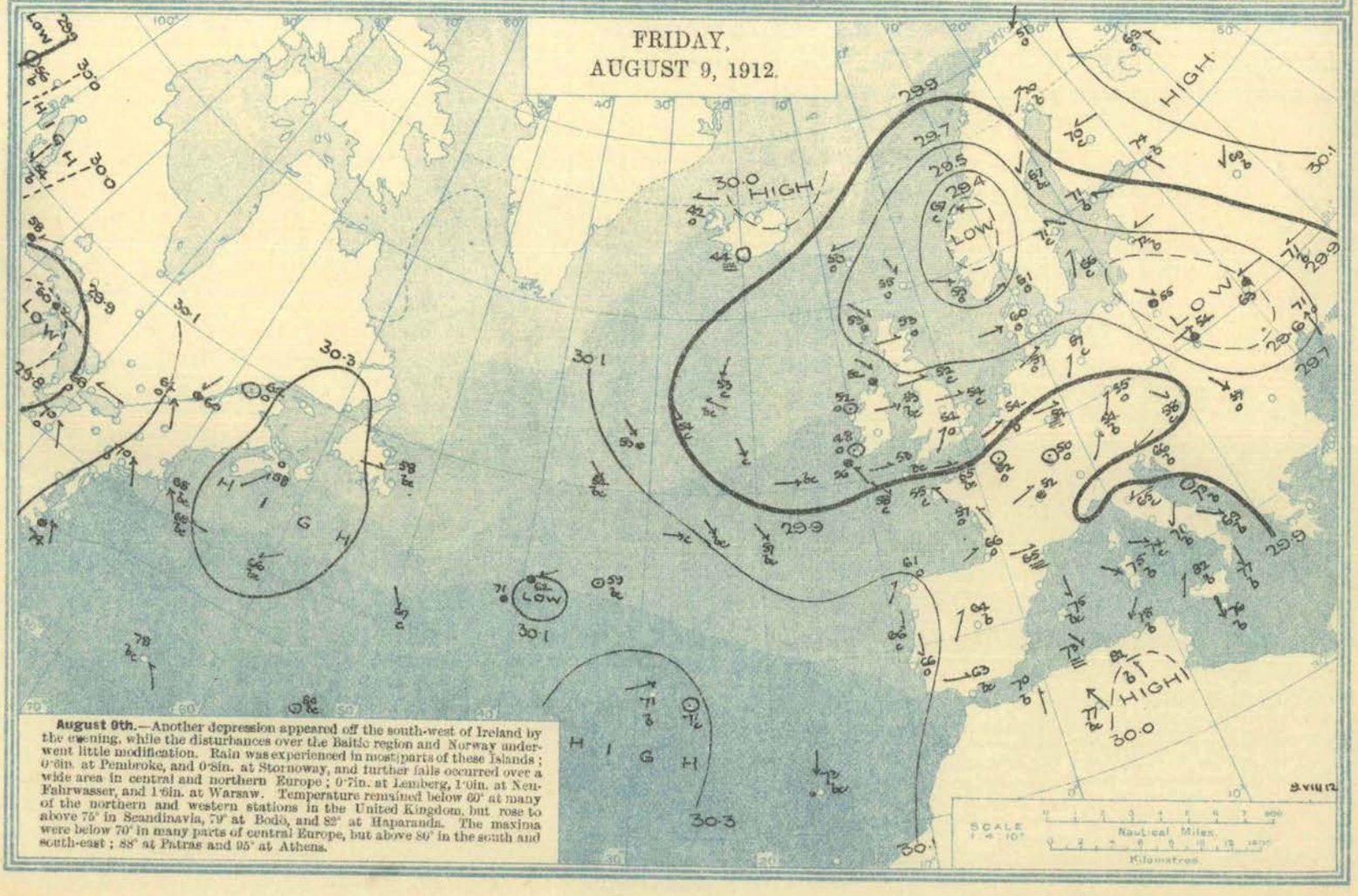
August 6th.—A depression over this country moved north-eastward during day, while one over the Baltic travelled north-westward. Little change occurred in the general distribution of pressure. The wind increased to a gale from South-West on some parts of our southern coasts. Thunderstorms were experienced in the west of these Islands, and 0·9in. of rain fell at Bath and Nottingham. Large quantities of rain also fell in France and Switzerland, and a moderate amount over a wide area; 0·9in. at Marseilles, 1·4in. at Cherbourg, and 2·1in. at Lugano. Temperature continued very low in the United Kingdom, but was again high in most Continental regions; 93° at Bucharest, and 95° at Malaga.



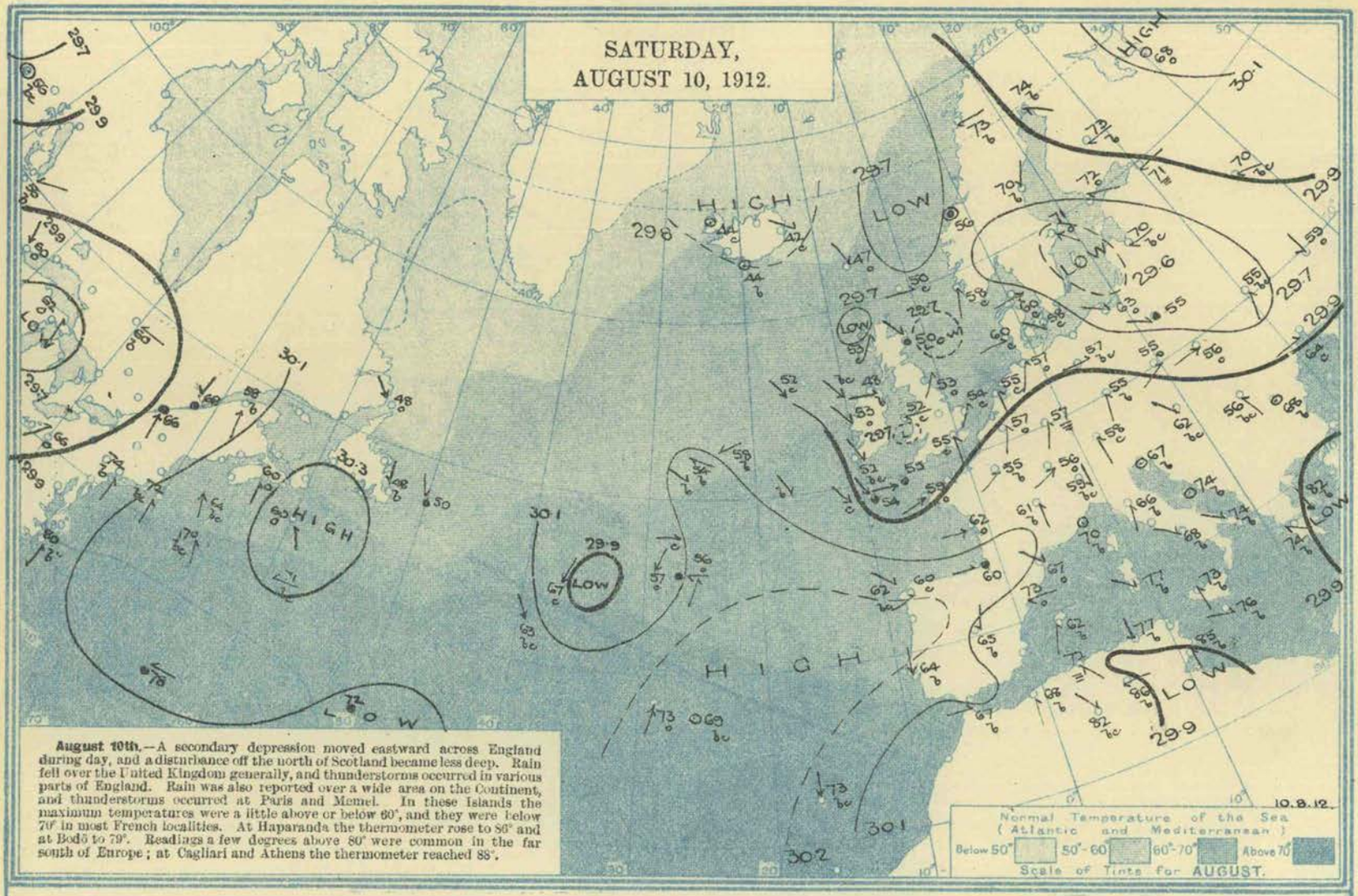
August 7th.—No important change occurred in the pressure distribution during day; the depression over these Islands moved north-eastward, thunderstorms were experienced over a wide area in the United Kingdom, and 1·3in. of rain fell at Killarney. Rain was general over the central and northern regions of the Continent; 1·1in. at Swinemünde, 1·7in. at Prague and Trieste, and 2·5in. at Lugano. Temperature remained low over these Islands and their immediate neighbourhood, but rose to about 80° at several places in central and southern Europe; to 91° at Bucharest and Athens. Maxima above 70° were recorded in Scandinavia.



August 8th.—A depression over the Baltic moved north-westwards and became deeper during day. Rain fell over the greater part of the United Kingdom, with thunder in some localities; at Wick the rain was 0·96in. Rain was experienced in Russia and many parts of central and northern Europe; 1·1in. at Skagen, 1·3in. at Kieff, 1·6in. at Lemberg, and 2·4in. at Warsaw. Maximum temperature readings above 70° were again common in Scandinavia, 79° at Haparanda and Wisby. High maxima were also reported from southern and south-eastern Europe; 91° at Athens, 92° at Brindisi, and 97° at Bucharest. In these Islands the readings continued low.

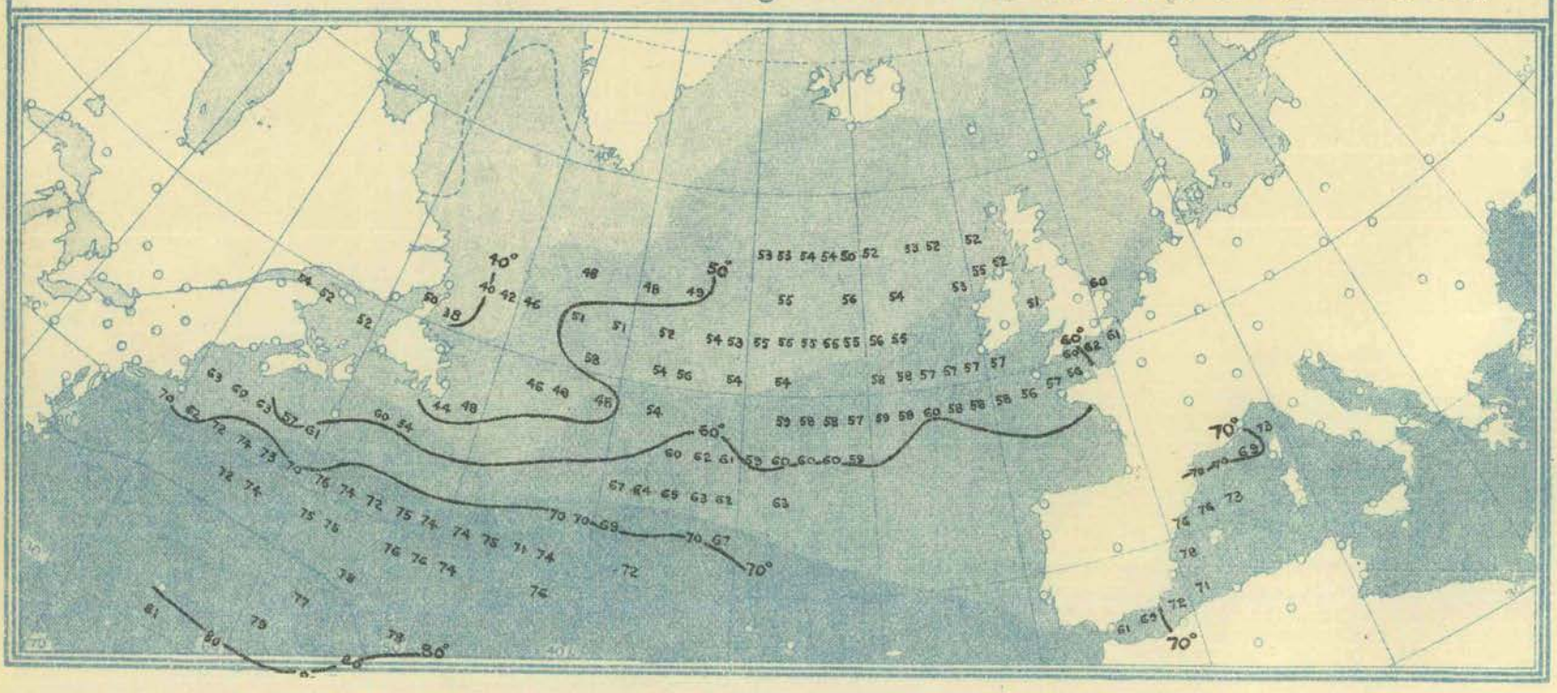


August 9th.—Another depression appeared off the south-west of Ireland by the evening, while the disturbances over the Baltic region and Norway underwent little modification. Rain was experienced in most parts of these Islands; 0·6in. at Pembroke, and 0·8in. at Stornoway, and further falls occurred over a wide area in central and northern Europe; 0·7in. at Lemberg, 1·0in. at Neu-Fahrwasser, and 1·6in. at Warsaw. Temperature remained below 60° at many of the northern and western stations in the United Kingdom, but rose to above 75° in Scandinavia, 79° at Bodö, and 82° at Haparanda. The maxima were below 70° in many parts of central Europe, but above 80° in the south and south-east; 88° at Patras and 95° at Athens.



August 10th.—A secondary depression moved eastward across England during day, and a disturbance off the north of Scotland became less deep. Rain fell over the United Kingdom generally, and thunderstorms occurred in various parts of England. Rain was also reported over a wide area on the Continent, and thunderstorms occurred at Paris and Memel. In these Islands the maximum temperatures were a little above or below 60°, and they were below 70° in most French localities. At Haparanda the thermometer rose to 86° and at Bodö to 79°. Readings a few degrees above 80° were common in the far south of Europe; at Cagliari and Athens the thermometer reached 88°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 10TH AUGUST, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* No. 33. THIRTY-THIRD WEEK, SUNDAY, AUGUST 11TH, TO SATURDAY, AUGUST 17TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The conditions were unseasonable in all parts of the Kingdom, but the rain was generally far less heavy than during the preceding week. In some localities in the north-east of England more than half the days were rainless. Thunderstorms occurred in various parts of eastern England during the earlier half of the period. At Southport, on the morning of the 13th, three striking waterspouts were observed; two over the Ribble Estuary and one over Liverpool Bay.

Temperature continued below the average, the deficit amounting to about 6° in England S.E. and the Midland Counties, to 5° in England E. and S.W., and to 4° in Ireland. In Scotland N. and W. it amounted to less than 2°. The highest of the maxima were registered at most stations on the 16th or 17th, and ranged from 71° in England N.E. to 65° in England S.W., Ireland N. and Scotland N. The lowest of the minima, which occurred generally about the middle of the week, ranged from 34° in Ireland N., 35° in England S.W., and 36° in the Midland Counties, to 41° in Scotland N., and to 49° in the English Channel. The lowest grass readings reported were 27° at Raunds and Birmingham, 30° at Dublin, 31° at Markree Castle, Llangammarch Wells and Hampstead and 32° at Hereford. The temperature of the soil was below the average in all parts of the Kingdom, both at 1 foot and 4 feet, the divergence at 1 foot being large.

Mean Temperature of the Sea. The water was much colder than during the corresponding week of last year, the difference amounting to more than 6° on many parts of the western, south-western and south-eastern coasts of England. Its temperature was also below the average.

Rainfall exceeded the normal in England S.E., S.W., and N.W. and also in the English Channel, but was less in the other districts. As much as 2·2 in. fell at Jersey on the 12th, and 1·1 in. at Plymouth and Salcombe on the 17th.

Bright Sunshine was again much below the average. In most districts the mean daily duration was less than 2½ hours, and in the Midland Counties, England S.W. and Scotland N. and E. less than 2 hours. The percentage of the possible duration ranged from 21 in the English Channel and 20 in Ireland N. to 11 in Scotland N. and the Midland Counties and to 9 in Scotland E.

Barometer and Wind. Cyclonic conditions continued over the United Kingdom and its neighbourhood, some further depressions arriving from the Atlantic, and a large and rather deep system extending over from the Baltic region. The latter had considerable effect on the wind in this country, causing a North-Westerly to Northerly current of considerable force during Tuesday and Wednesday. Later on this disturbance dispersed, and on the approach of another depression from the westward a moderate to fresh breeze from the South-Westward and Southward set in, bringing a higher temperature.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 131.	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ... Warmth ...	Deficient	Deficient	Deficient	Very deficient	Very deficient	Very deficient	Deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient
Rainfall ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Heavy	Moderate	Light	Very heavy
Sunshine ...	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Very scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 11 weeks from June 2nd, 1912. Warmth ...	0 * 5	0 * 6	2 * 5	4 * 4	3 * 5	3 * 5	2 * 4	2 * 5	1 * 6	0 * 6	0 * 7	2 * 5
Rainfall ...	3 * 2	3 * 1	8 * 0	5 * 1	6 * 2	6 * 3	6 * 3	7 * 2	7 * 1	6 * 2	6 * 2	6 * 1
Sunshine ...	1 * 6	0 *10	0 * 9	2 * 5	0 * 7	0 * 6	1 * 6	1 * 8	1 * 8	1 * 7	1 * 9	0 * 7

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks. Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks. Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks. Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks. Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(25977—24.) Wt. 173—814. 450. 8/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*61*	*15, 16*	*47*	*11, 12*	*57·1*	*49·1*	*52·9*	—	*76*	*0*			54·3				*6*	*0·78*	—	*1·5*	—	*10*	—	*Baltasound.*
a Islands .. *a* Lerwick	62	14, 16	47	11, 13	57·4	49·3	53·1	+ 0·9	78	0							4	0·48	—	2·5	- 1·1	16	- 9	Deerness.
a Stornoway	60	11, 17	46	12th	56·9	49·3	52·9	- 1·3	76	0							6	1·41	+ 0·47	1·6	- 2·7	11	-18	Stornoway.
a Castlebay, Barra Isd.	*59*	*17th*	*48*	*14th*	*56·3*	*50·0*	*53·0*	- *3·7*	*77*	*0*							7	*1·24*	—	*2·5*	—	*17*	—	*Castlebay.*
a Wick	57	14, 15, 16	41	12th	55·4	47·6	51·3	- 3·0	65	0							4	0·47	- 0·18					
p Strathpeffer ..																	—	—	—					Strathpeffer.
b, Main- *p* Glencarron .. land.	62	17th	43	11, 13	57·8	46·9	52·0	- 1·5	70	0							5	1·06	- 0·56					
p Fort Augustus..	64	16th	41	13th	60·0	48·7	54·0	- 1·6	84	0							4	0·33	- 0·47	1·0	- 1·9	7	-13	Fort Augustus.
p Fort William ..	65	17th	42	13th	61·0	49·4	54·9	- 1·1	90	0							5	0·23	- 1·17					
1. SCOTLAND, E.																								
p Gordon Castle.. S	63	16, 17	43	12th	58·9	48·0	53·1	- 3·0	78	0	0	33	55·6	-2·9	54·3	-1·5	—	—	—	1·2		8	—	Crathes S.
a Nairn	64	17th	39	12, 13	59·1	44·9	51·6	- 4·4	67	0							5	1·25	+ 0·47	*1·5*	—	*10*	—	*Gordon Castle.*
a Aberdeen ..	61	16, 17	42	12th	58·3	48·0	52·8	- 3·2	78	0					53·0	-1·4	5	0·64	+ 0·09	1·6	—	11	—	Nairn.
a Balmoral ..	62	16th	39	12th	58·3	46·0	51·8	- 1·2	69	0	0	37					4	0·54	- 0·10	2·0	- 2·9	13	-19	Aberdeen.
p Crieff	67	15, 16	41	11, 13	63·4	47·4	54·9	- 2·2	90	0							5	0·21	- 0·62					Balmoral.
a Leith	67	15, 16	41	11, 13	63·4	47·4	54·9	- 2·2	90	0							4	0·61	- 0·33	0·8	—	5	—	Balruddery.
a Leith	66	16th	44	12th	62·3	49·0	55·3	- 2·7	93	0							3	0·24	- 0·41					
p West Linton .. S	63	16th	39	12th	60·0	45·6	52·4	- 2·3	73	0	0	35					6	0·35	—	*1·5*	—	*10*	—	*West Linton.*
p Marchmont .. S	64	16, 17	42	12th	59·7	46·7	52·8	- 2·8	76	0	0	38	54·1	-4·3			3	0·76	- 0·01	1·2	- 3·6	8	-24	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	66	16th	38	12th	60·3	47·6	53·6	- 3·0	81	0	0	38	53·9	-4·4	54·1	-2·2	4	0·41	- 0·27	1·8	—	12	—	Cockle Park.
a Shields	66	16, 17	45	11, 12	61·6	48·4	54·6	- 2·8	88	0							5	0·64	+ 0·03					*Newcastle.*
a Durham	66	16th	43	11, 12	61·4	47·4	54·0	- 3·6	84	0	0	38					2	0·19	- 0·37	1·6	- 3·2	11	-22	Durham.
a, North .. *p* Rounton ..	66	16, 17	43	11th	61·9	47·7	54·4	- 2·7	87	0	0	38	57·1				4	0·44	- 0·19					Rounton.
a West Witton	*64*	*17th*	*43*	*11th*	*60·7*	*47·9*	*53·9*	—	*83*	*0*	0	41	57·0		54·8		*2*	*0·21*	—					*West Witton.*
p Scarborough ..	67	16th	47	11th	62·7	50·2	56·1	- 2·1	99	0					58·7†		3	0·42	- 0·21	2·8	—	19	—	Scarborough.
p York	71	11th	44	13th	64·4	49·0	56·2	- 2·6	99	0			58·0	-2·2	57·4	-0·1	5	0·40	- 0·18	2·5	- 2·4	17	-17	York.
a Spurn Head	67	17th	47	13th	61·9	49·9	55·5	- 3·7	95	0	0	39	56·3	-4·5	56·0	-0·6	5	0·38	- 0·07	*1·8*	—	*12*	—	*Hull.*
b, South .. *a* Lincoln	66	16, 17	43	12, 13	62·3	48·0	54·7	- 4·7	89	0			55·9	-5·9	57·1	-1·0	6	0·40	- 0·11					Lincoln.
a Fulbeck	67	17th	39	13th	61·3	46·3	53·4	- 6·0	80	0	0	37	58·1	-6·6	57·0	-2·4	7	0·39	- 0·18	2·6	—	18	—	Rauceby.
																	—	—	—	3·5	—	24	—	Skegness.
3. ENGLAND, E.											0	42	59·3	-5·1	59·6	-1·1	—	—	—	*3·5*	—	*24*	—	*Lowestoft.*
p Cromer	69	17th	44	14th	62·6	49·6	55·7	- 3·7	96	0							5	0·17	—	3·7	—	25	—	Cromer.
p Hillington ..																	—	—	—					Hillington.
a, North .. *a* Yarmouth ..	68	17th	45	12, 14	63·6	48·9	55·8	- 4·1	97	0			58·6	-7·7	59·7	-2·9	4	0·56	+ 0·02	4·3	—	30	—	Yarmouth.
a Norwich	68	17th	43	12th	63·3	48·7	55·6	- 4·0	95	0	0	39	59·3				6	0·46	—	*3·6*	—	*25*	—	*Norwich.*
p Geldeston	69	17th	43	12th	64·3	48·6	56·0	- 3·4	98	0							5	0·22	- 0·29	3·4	- 2·9	23	-20	Geldeston.
p Cambridge	67	17th	40	12th	63·0	47·1	54·6	- 5·9	88	0	0	36	58·7	-4·8	59·5	-1·2	6	0·37	- 0·16	2·0	- 4·1	14	-29	Cambridge.
a Felixstowe	*63*	*16th*	*46*	*12, 14*	*63·7*	*50·1*	*56·5*	- *4·4*	*102*	*0*					?		*5*	*0·23*	—	*3·1*	—	*21*	—	*Felixstowe.*
a Clacton-on-Sea ..	67	16th	46	12th	63·4	49·6	56·1	- 4·9	99	0	0	41	58·3	-4·1	58·9	-2·0	5	0·48	—	2·5	—	17	—	Clacton.
b, South .. *a* Rothamsted ..	65	16, 17	39	12th	62·0	48·0	53·5	- 5·7	81	0	0	40					5	0·25	- 0·32	2·0	- 4·3	14	-29	Rothamsted.
a Shoeburyness	*67*	*16th*	*43*	*13th*	*63·1*	*49·3*	*55·8*	- *6·4*	*97*	*0*	0	40	61·4	-5·7			*4*	*0·17*	- *0·22*	*2·3*	—	*16*	—	*Southend.*
p Tottenham	66	16, 17	45	12th	61·4	50·0	55·4	- 5·5	94	0	0	40			60·5	-1·7	4	0·23	—	2·0	—	14	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	64	17th	43	11th	60·3	47·1	53·3	- 3·7	79	0	0	39	56·2	-6·2	55·4	-1·9	5	0·46	—	*2·1*	—	*14*	—	*Huddersfield.*
a Bawtry	67	16th	42	12th	62·0	48·4	54·8	- 4·3	90	0	0	37	55·3	-2·5	?	?	3	0·24	- 0·40	2·4	—	16	—	Harrogate.
p Buxton	*62*	*17th*	*42*	*12th*	*56·9*	*46·3*	*51·3*	- *4·6*	*65*	*0*	0	36	57·0		56·6		5	0·43	- 0·11	0·9	- 3·9	6	-27	Worksop.
a East .. *a* Nottingham	65	16, 17	41	12th	61·4	45·4	52·9	- 6·3	76	0	0	34	56·2	-5·2	57·8	-1·9	*6*	*1·41*	+ *0·40*	*2·2*	—	*15*	—	*Buxton.*
p Birmingham, Edgbsn.	61	12th	43	12th	58·7	48·1	53·1	- 5·3	78	0	1	27	52·7	-5·0	53·0	-1·3	5	0·44	- 0·11	1·4	—	10	—	Nottingham.
a Raunds	65	16, 17	39	12th	62·1	45·6	53·4	- 6·2	80	0	0	39	59·1		58·5		5	0·76	+ 0·14	1·2	—	8	—	Birmingham.
a Oxford	65	16th	42	12th	61·7	47·7	54·3	- 5·9	86	0	0	39					6	0·44	—					Raunds.
											0	40	55·6	-4·5	55·4	-0·8	5	0·63	+ 0·15	1·6	- 4·4	11	-30	Oxford.
											—	—	—	—	—	—	—	—	—	1·9	—	13	—	Sheffield.
a Cheadle	67	11th	41	16th	60·3	43·3	51·3	- 5·7	65	0	0	33					5	0·86	+ 0·09					Cheadle.
p Shrewsbury ..	65	17th	37	12th	61·4	46·0	53·2	- 5·7	78	0	0	37					3	0·34	—					Shrewsbury.
b, West .. *a* Hereford ..	64	11th	36	12th	62·1	46·3	53·7	- 5·7	82	0	0	32					5	0·43	- 1·12					Hereford.
a Cirencester	61	15, 16	40	12th	59·6	44·4	51·5	- 6·8	67	0	0	40	56·3		56·5		5	0·92	+ 0·26	1·0	- 4·9	7	-34	Cirencester.
a Bath	65	11, 17	45	12, 13, 14	63·0	48·6	55·4	- 4·4	94	0			59·5	-4·9	59·8	-1·9	5	0·85	+ 0·02	1·9	—	13	—	Bath.
5. ENGLAND, S.E.											?	?	?	?	?	?	—	—	—					Canterbury.
p Kew	66	17th	45	14th	62·1	49·9	55·6	- 5·2	95	0	0	36	58·5	-4·7	58·1	-1·1	5	0·34	- 0·18	1·8	- 4·3	13	-30	Kew.
a Marlborough	63	11, 16	38	14th	61·0	44·8	52·4	- 5·6	73	0	0	33	56·8		56·6		4	1·15	+ 0·56	1·0	- 4·8	7	-33	Marlborough
a Margate	66	16, 17	46	14th	63·6	51·1	57·0	- 4·5	105	0		—	58·4	-5·0	58·3	-2·1	5	0·37	- 0·08	1·6	- 4·6	11	-32	Margate.
a Wisley, Surrey ..	66	16th	43	14th	62·1	48·3	54·8	- 6·5	90	0	0	38	59·1	-4·4	59·4	-1·6	4	0·16	—	1·5	—	10	—	Wisley
a Swarraton	64	16th	45	11, 13	60·4	48·7	54·2	- 4·9	85	0	0	41	59·6	-5·7	60·0	-1·4	5	0·74	+ 0·13	2·2	—	15	—	Worthing.
a Tunbridge Wells ..	64	17th	42	14th	61·6	47·3	54·0	- 5·9	84	0	0	38	59·3	-5·3			6	1·15	+ 0·65	3·0	- 3·3	21	-23	Tunbridge Wells.
a Dungeness	64	11, 12, 17	47	11, 14	63·1	51·3	56·9	- 4·1	104	0							3	0·64	+ 0·19	2·8	—	19	—	Littlestone.
p Hastings.. ..	65	16th	45	14th	62·1	49·6	55·5	- 5·5	95	0	0	41	60·6		61·1		6	1·20	+ 0·66	*3·1*	- *3·8*	*22*	- *26*	*Hastings.*
p Southampton ..	64	11, 16	46	11th	61·6	50·1	56·5	- 6·7	95	0	0	41					6	1·08	+ 0·49	1·8	- 4·9	13	-34	Southampton.
a Ventnor	64	17th	47	13th	61·4	51·0	55·9	- 6·1	97	0	0	40					5	0·71	+ 0·24	2·2	- 4·5	15	-31	Ventnor.
											0	45	59·1	-6·9	60·2	-2·3	—	—	—	*2·4*	—	*17*	—	*Portsmouth.*
											*	*	59·6		60·4		—	—	—	3·4	- 3·4	24	-23	Eastbourne.
											*	*	58·1		59·4		—	—	—	*2·2*	—	*15*	—	*Bournemouth.*
LONDON,											0	43			60·7		—	—	—	*2·4*	- *4·6*	*17*	- *32*	*Brighton.*
a Westminster	*67*	*16th*	*46*	*14th*	*63·4*	*50·3*	*56·5*	- *4·6*	*102*	*0*	0	42					*5*	*0·21*	- *0·31*	*1·8*	- *3·7*	*13*	- *26*	*Westminster.*
a Greenwich	*70*	*16th*	*44*	*14th*	*65·3*	*48·7*	*56·5*	- *5·5*	*102*	*0*	0	37					*5*	*0·23*	- *0·26*	*2·1*	- *4·8*	*15*	- *33*	*Greenwich.*
a Hampstead	*65*	*16th*	*43*	*14th*	*61·7*	*47·7*	*54·3*	—	*86*	*0*	0	31					*4*	*0·24*	—	*2·3*	—	*16*	—	*Hampstead.*
a Camden Square ..	*69*	*16th*	*44*	*12, 14*	*65·3*	*48·3*	*56·3*	—	*100*	*0*	0	41					*4*	*0·21*	—	*2·3*	—	*16*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	63	12th	43	11th	59·3	49·3	54·0	- 2·8	84	0	*	*	*	*	*	*	5	0·59	- 0·48	*	*	*	*	
p Glasgow	64	16, 17	45	13th	61·4	50·9	55·8	- 0·6	97	0	0	34					3	0·26	- 0·63	0·9	- 3·4	6	-23	Glasgow.
p Rothesay .. S	64	16th	45	12th	62·4	49·9	55·8	- 0·9	97	0	*	*	*	*	55·0	-0·6	6	0·50	- 0·60	*	*	*	*	
a Kilmarnock ..	68	14th	39	13th	62·9	48·0	55·0	- 1·6	91	0	*	*	*	*	*	*	6	0·39	—	*1·6*	—	*11*	—	*Kilmarnock.*
a Colmonell ..	64	16th	46	11th	60·1	50·3	54·9	- 2·1	90	0	0	41	*	*	*	*	4	0·28	- 0·68	*	*	*	*	
p Dumfries ..	62	12, 16	43	11th	60·4	49·1	54·4	- 3·2	87	0	0	39	57·9	*	58·0	*	4	0·65	- 0·23	*1·9*	—	*13*	—	*Dumfries.*
p Cally, Gatehouse S	65	12th	44	12th	63·1	48·3	55·3	- 0·8	93	0	*	*	*	*	*	*	5	0·58	- 0·49	*	*	*	*	
b I. OF MAN.																								
p Douglas	60	12th	48	11th	57·4	50·4	53·7	- 3·0	82	0	0	46	*	*	*	*	7	0·81	- 0·12	3·5	- 2·2	24	-15	Douglas.
											0	34	55·6	-3·7	55·0	-1·1	—	—	—	*2·0*	—	*14*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											0	41	*	*	*	*	—	—	—	2·3	—	15	—	Hoylake.
p Aspatria	65	16, 17	45	11th	61·3	49·3	54·9	- 1·8	90	0	0	38	58·1		55·3		3	0·43	- 0·57	2·3	—	15	—	Aspatria.
p Newton Rigg ..	62	16th	40	11th	59·6	48·1	53·5	- 2·4	81	0	0	33	57·4	-2·8	55·1	-1·6	4	0·61	- 0·17	2·7	- 2·2	18	-15	Newton Rigg.
p Stonyhurst	63	17th	44	12th	59·3	48·9	53·8	- 3·5	83	0	0	38	*	*	*	*	5	1·36	+ 0·28	2·5	- 2·4	17	-17	Stonyhurst.
p Blackpool	64	17th	48	13th	60·1	51·1	55·3	- 3·3	93	0	0	37	58·0	*	56·0	*	6	0·83	0·00	3·1	- 2·2	21	-15	Blackpool.
p Manchester (Whit. Pk.)	*66*	*17th*	*43*	*12th*	*59·7*	*49·3*	*54·2*	—	*85*	*0*	0	44	*	*	*	*	5	1·11	—	*1·7*	—	*12*	—	*Whit Park.*
a Liverpool (Bidston) ..	64	17th	49	14th	59·1	50·9	54·8	- 3·6	90	0	*	*	*	*	*	*	7	1·65	+ 0·96	*1·7*	—	*12*	—	*Liverpool.*
a Hawarden Bridge ..	67	17th	47	13th	61·1	51·7	56·1	- 3·7	99	0	0	38	58·8	-4·8	59·2	-2·3	7	1·38	+ 0·70	*3·2*	- *2·4*	*22*	- *16*	*Southport.*
											0	43	56·5	-5·0	58·9	-0·5	—	—	—	*1·3*		*9*	—	*Manchester City)*
b, NORTH WALES.																								
p Llandudno	65	17th	46	12th	60·3	51·7	55·7	- 3·6	96	0	*	*	*	*	*	*	5	0·89	+ 0·24	3·0	- 2·4	20	-17	Llandudno.
a Holyhead	61	11, 16	50	12th	59·3	51·9	55·4	- 3·5	94	0	*	*	*	*	*	*	5	0·40	- 0·30	2·5	—	17	—	Aberdovey.
p Bettws-y-Coed ..	63	16th	46	11, 13, 14	60·4	48·9	54·3	- 4·6	86	0	0	42	54·7	-3·7	55·1	-0·4	5	0·80	—	1·9	—	13	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	63	17th	35	12th	59·3	44·4	51·4	- 5·7	66	0	0	31	55·0	-4·9	54·8	-1·0	5	0·93	—	2·3	—	16	—	Aberystwyth.
a Pembroke	62	12th	46	12th	59·0	51·4	55·0	- 3·7	91	0	*	*	*	*	*	*	5	0·76	+ 0·11	2·6	—	18	—	Llangammarch
p Cardiff	62	11, 13	41	12th	60·0	47·1	53·2	- 7·1	78	0	0	37	57·5	-5·6	57·8	-2·1	4	1·24	+ 0·27	1·7	- 4·6	12	-31	Pembroke.[Wells
																				1·9	—	*13*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	63	11, 16	43	14th	61·3	49·7	55·2	- 5·5	92	0	0	41	*	*	*	*	5	1·11	+ 0·32	*2·2*	—	*15*	—	*Clifton.*
a Shaftesbury	64	16th	41	13th	58·6	46·3	52·1	- 6·6	71	0	*	*	55·9	*	57·4	*	7	1·27	+ 0·59	*	*	*	*	Shaftesbury.
a Arlington	61	16th	45	13th	57·6	48·1	52·6	- 5·1	74	0	*	*	57·6	*	*	*	5	1·82	+ 0·71	1·3	- 5·3	9	-37	Newquay.
a Cullompton	65	11th	43	11, 14	61·9	48·6	54·9	- 4·5	90	0	0	41	57·9	*	*	*	7	1·19	+ 0·51	0·9	- 5·0	6	-35	Cullompton.
a Portland	61	13th	47	13th	59·4	52·6	55·8	- 5·1	97	0	*	*	*	*	*	*	5	0·95	—	*1·9*	—	*13*	—	*Weymouth.*
p Plymouth	61	11, 14	45	11, 14	59·1	50·0	54·3	- 6·1	86	0	0	37	57·4	-7·5	*	*	6	2·13	+ 1·49	1·7	- 4·7	12	-32	Plymouth.
p Falmouth	61	11, 15	50	14th	58·7	51·6	54·9	- 5·0	90	0	*	*	*	*	*	*	7	2·67	+ 1·94	1·8	- 5·1	13	-35	Falmouth.
9. IRELAND, N.																								
a, West .. { *a* Malin Head	64	17th	47	11th	57·6	48·9	53·0	- 3·5	77	0	*	*	*	*	*	*	5	0·65	- 0·15	*	*	*	*	
a Blacksod Point ..	60	16th	45	12th	57·6	48·9	53·0	- 4·4	77	0	*	*	*	*	*	*	3	0·55	- 0·53	*	*	*	*	
p Markree Castle ..	63	16th	34	12th	59·6	45·0	51·9	- 4·3	69	0.	0	31	57·2	*	55·6	*	5	1·44	+ 0·45	4·1	- 0·1	28	- 1	Markree Castle.
a Birr Castle	63	17th.	39	12th	59·9	46·0	52·5	- 5·1	74	0	*	*	*	*	*	*	7	0·94	+ 0·04	*2·7*	*- 1·9*	*18*	*-13*	*Birr Castle.*
b, East .. { *p* Armagh	65	16th	40	12th	60·6	46·1	52·9	- 3·9	76	0	0	34	57·3	-4·3	56·2	-2·3	5	0·71	- 0·16	1·9	- 2·3	13	-16	Armagh.
a Donaghadee	63	17th	48	11, 12, 14	59·3	49·3	54·0	- 3·3	84	0	*	*	*	*	*	*	5	0·43	- 0·36	*	*	*	*	
											0	36	56·6	-4·9	56·2	-2·5	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											1	50	*	*	*	*	—	—	—	2·0	- 3·3	14	-22	Phœnix Park.
a, East { *p* Dublin, City	66	16th	43	12th	60·3	49·0	54·3	- 5·0	88	0	0	41	*	*	*	*	5	0·50	- 0·25	*	*	*	*	Dublin City.
a Kilkenny	65	17th	40	12th	61·4	48·1	54·4	- 3·8	87	0	*	*	*	*	*	*	7	0·41	- 0·41	*	*	*	*	
a Waterford	63	12, 16	42	12th	60·6	47·1	53·5	- 5·2	81	0	*	*	*	*	*	*	6	0·70	- 0·19	*	*	*	*	
a Birr Castle	63	17th	39	12th	59·9	46·0	52·5	- 5·1	74	0	*	*	*	*	*	*	7	0·94	+ 0·04	2·7	- 1·9	18	-13	Birr Castle.
a Foynes	64	17th	46	11, 12	60·6	48·9	54·4	- 4·0	87	0	*	*	*	*	*	*	7	0·62	- 0·29	*	*	*	*	
a Cahir	65	17th	40	12th	61·4	47·3	53·9	- 4·1	83	0	*	*	*	*	*	*	7	0·85	—	*	*	*	*	
b, West .. { *a* Killarney	68	11, 16, 17	45	12th	63·0	49·4	55·8	- 2·5	97	0	*	*	*	*	*	*	6	0·62	- 0·43	*	*	*	*	
a Valencia	62	16th	45	11th	59·6	49·7	54·4	- 4·2	87	0	*	*	*	*	*	*	6	0·49	- 0·66	2·7	- 2·3	19	-16	Valencia.
a Roche's Point	63	12, 15	41	12th	60·9	49·3	54·8	- 4·0	90	0	*	*	*	*	*	*	5	0·43	- 0·47	2·6	*	18	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	61	15th	49	12, 14	59·3	51·6	55·2	- 5·5	92	0	*	*	*	*	*	*	7	1·59	+ 1·03	1·8	- 5·5	13	-39	Scilly.
a Jersey, St. Aubins ..	68	17th	50	14th	62·9	53·1	57·7	- 4·9	110	0	*	*	*	*	*	*	7	3·27	+ 2·70	3·6	- 4·3	25	-30	St. Heliers.
a Guernsey (Villa Carey)	?66	16, 17	50	13, 14	61·9	53·0	57·2	- 4·5	106	0	0	48	60·8	-4·3	61·0	-1·2	6	1·55	+ 0·95	3·4	- 4·5	24	-32	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·7 hrs. 19 %; Ramsgate, 3·1 hrs. 22 %; Rhyl, 3·3 hrs. 22 %; Salcombe, 2·6 hrs. 18 %; Tenby, 2·1 hrs. (-4·2) 14 % (- 29 %); Torquay, 1·8 hrs. (-5·0) 13 % (- 35 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 17th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	54	52	53·2	+0·1	SCOTLAND, W. ..	Lamlash	58	52	54·7	-1·4
	Kirkwall	62?	57?	59·3?	+3·5?		Ballantrae	59	53	55·8	-1·3
	Wick	54	53	53·7	+0·3	ENGLAND, N.W. ..	Port Erin	58	55	56·3	-1·0
SCOTLAND, E. ..	Cromarty	56	53	54·9	-1·8		Newquay	59	59	59·0	-2·9
	Pennan Bay	55	53	54·2	-2·2	ENGLAND, S.W. ..	Scilly	58	56	56·5	—
	Aberdeen, Cove Bay	54	53	53·4	-2·1		Plymouth‡	60	57	57·4	-3·6
ENGLAND, N.E. ..	Burnmouth, Berwick	53	51	52·0	-3·2		Salcombe	58	55	56·6	-3·5
	Scarborough	58	54	57·0	-0·6	IRELAND, N.W. ..	Sheephaven	58	55	56·9	-3·4
ENGLAND, E. ..	Shipwash Lightship	64	59	61·2	-1·8		Teelin	58	55	56·9	-4·7
	Margate‡	61	59	60·3	-4·6	IRELAND, S.W. ..	Cleggan	57	54	56·0	-2·1
ENGLAND, S.E. ..	Eastbourne‡	61	59	60·3	-4·0		Seafield	61	56	58·0	-3·4
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, only once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-THIRD WEEK—August 11th to August 17th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	65	41	58·1	48·5	53·0	− 1·8	77	− 12	0	0	5	0	0·66	−0·26	1·7	−2·2	11	−14
Eastern.																		
1. SCOTLAND, EAST ...	67	39	60·0	47·0	53·1	− 2·8	78	− 20	0	0	4	0	0·58	−0·16	1·4	−3·5	9	−23
2. ENGLAND, N.E.	71	38	62·0	48·3	54·7	− 3·3	89	− 23	0	0	5	+ 1	0·41	−0·17	2·5	−2·8	17	−19
3. ENGLAND, EAST ...	69	39	63·0	48·6	55·3	− 4·7	93	− 33	0	0	5	+ 2	0·34	−0·21	2·8	−3·3	19	−23
4. MIDLAND COUNTIES ...	67	36	61·1	46·4	53·4	− 5·7	80	− 39	0	0	5	+ 1	0·56	−0·03	1·5	−4·0	11	−28
5. ENGLAND, S.E.	66	38	61·9	49·2	55·1	− 6·0	92	− 42	0	0	5	+ 2	0·75	+0·20	2·1	−4·4	15	−30
Western.																		
6. SCOTLAND, WEST ...	68	39	60·9	49·5	54·9	− 1·8	90	− 13	0	0	5	0	0·51	−0·52	2·2	−2·9	15	−19
7. ENGLAND, N.W.	67	40	60·1	50·3	54·9	− 3·4	90	− 25	0	0	5	+ 1	0·93	+0·13	2·5	−2·6	17	−18
8. ENGLAND, S.W.	65	35	59·5	49·0	53·9	− 5·4	83	− 39	0	0	6	+ 2	1·41	+0·68	1·8	−4·4	12	−30
9. IRELAND, NORTH ...	65	34	59·1	47·4	52·9	− 4·2	76	− 29	0	0	5	0	0·79	−0·12	3·0	−1·4	20	−10
10. IRELAND, SOUTH ...	66	39	60·9	48·3	54·2	− 4·2	85	− 30	0	0	6	+ 2	0·62	−0·35	2·5	−2·7	17	−18
11. ENGLISH CHANNEL ...	68	49	61·4	52·6	56·7	− 5·0	103	− 33	0	0	7	+ 3	2·14	+1·54	2·9	−4·9	21	−34

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 11 Weeks, June 2nd to Aug. 17th, 1912.

0. SCOTLAND, NORTH ...	74	35	*	*	*	*	876	− 61	0	− 2	47	0	8·19	−0·27	3·2	−1·2	19	− 7
Eastern.																		
1. SCOTLAND, EAST ...	87	31	*	*	*	*	936	−118	0	− 1	48	+ 8	8·36	+1·51	2·7	−2·7	16	−17
2. ENGLAND, N.E.	86	35	*	*	*	*	1110	− 76	0	0	54	+19	10·28	+4·56	3·5	−2·5	22	−15
3. ENGLAND, EAST ...	91	38	*	*	*	*	1341	+ 9	0	0	44	+11	6·49	+1·00	5·5	−1·2	35	− 7
4. MIDLAND COUNTIES ...	88	35	*	*	*	*	1192	−103	0	0	49	+15	9·98	+4·22	4·0	−2·0	25	−12
5. ENGLAND, S.E.	88	34	*	*	*	*	1314	− 85	0	0	43	+12	7·52	+2·31	5·6	−1·3	35	− 8
Western.																		
6. SCOTLAND, WEST ...	83	35	*	*	*	*	1061	− 56	0	0	48	+ 6	10·01	+1·21	4·2	−1·6	25	−10
7. ENGLAND, N.W.	84	34	*	*	*	*	1143	− 84	0	0	52	+14	11·12	+3·98	4·2	−1·8	26	−11
8. ENGLAND, S.W.	88	30	*	*	*	*	1179	−116	0	0	53	+16	12·76	+5·94	4·5	−2·0	29	−13
9. IRELAND, NORTH ...	75	33	*	*	*	*	952	−177	0	0	52	+ 5	10·79	+2·78	4·1	−0·8	26	− 4
10 IRELAND, SOUTH ...	79	33	*	*	*	*	1062	−187	0	0	58	+18	12·45	+4·66	4·4	−1·1	28	− 6
11. ENGLISH CHANNEL ...	82	45	*	*	*	*	1285	−115	0	0	52	+15	11·75	+6·30	5·9	−2·1	38	−13

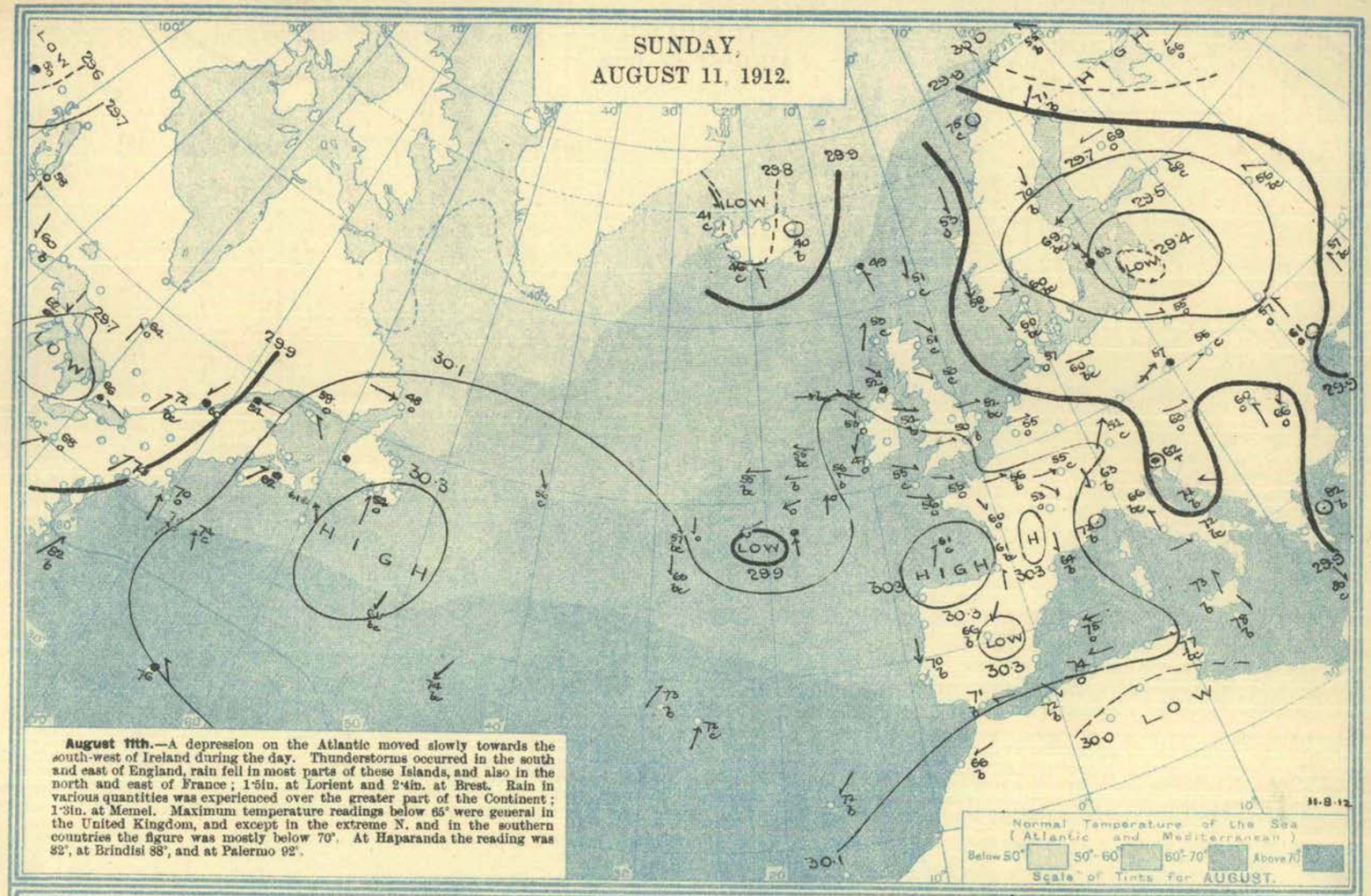
THE YEAR.—Aggregates, &c., for the Period of 33 Weeks, December 31st, 1911, to August 17th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1,364	− 21	427	−130	151	0	28·41	−0·89	3·3	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1,542	− 43	519	−101	138	+14	18·92	+0·81	2·3	−1·0	25	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	1,817	+ 79	373	−102	133	+21	19·94	+5·74	3·5	−1·1	27	− 3
3. ENGLAND, EAST ...	91	14	*	*	*	*	2,222	+199	274	−247	121	+13	14·71	+0·90	4·5	−0·5	34	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2,044	+ 30	373	−160	125	+17	21·96	+6·49	3·6	−0·9	27	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	2,235	+ 69	218	−163	117	+15	18·30	+3·48	4·6	−0·4	35	− 3
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1,711	+ 2	329	− 96	138	+ 7	27·02	+0·40	3·8	−0·6	28	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	1,881	+ 30	298	− 88	133	+14	23·38	+3·95	3·9	−0·6	29	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2,054	− 6	189	−112	143	+26	29·04	+8·14	3·9	−1·0	30	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	1,697	− 92	237	−108	135	− 7	24·00	+2·03	3·6	−0·5	27	− 3
10. IRELAND, SOUTH ...	79	13	*	*	*	*	1,983	− 85	167	− 92	159	+33	28·35	+5·04	3·6	−0·9	28	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2,482	+163	44	− 65	140	+16	25·25	+7·88	5·1	−0·9	39	− 7

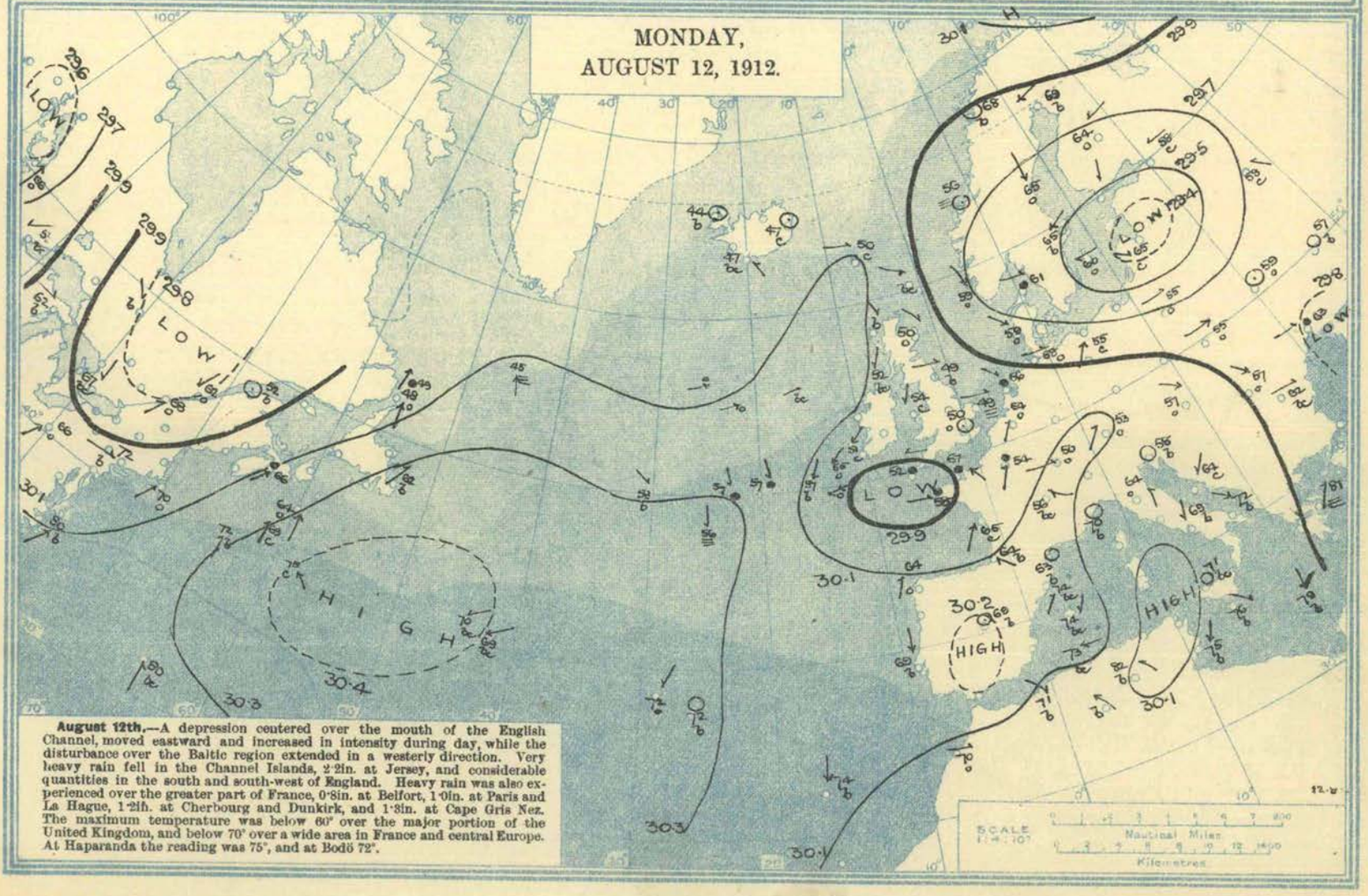
M.O., August 21, 1912.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 30 years only.

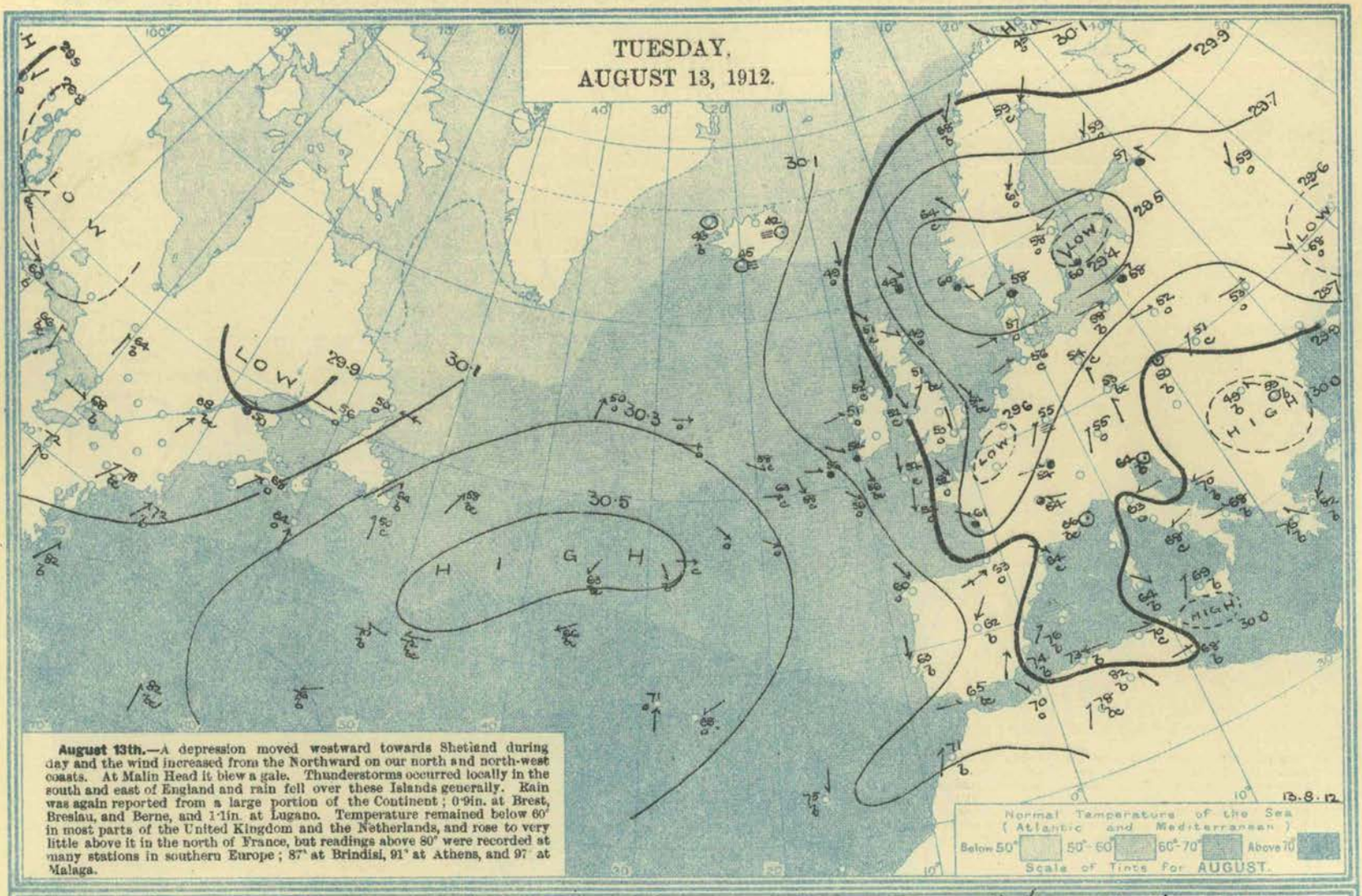


August 11th.—A depression on the Atlantic moved slowly towards the south-west of Ireland during the day. Thunderstorms occurred in the south and east of England, rain fell in most parts of these Islands, and also in the north and east of France; 1·5in. at Lorient and 2·4in. at Brest. Rain in various quantities was experienced over the greater part of the Continent; 1·3in. at Memel. Maximum temperature readings below 65° were general in the United Kingdom, and except in the extreme N. and in the southern countries the figure was mostly below 70°. At Haparanda the reading was 82°, at Brindisi 88°, and at Palermo 92°.



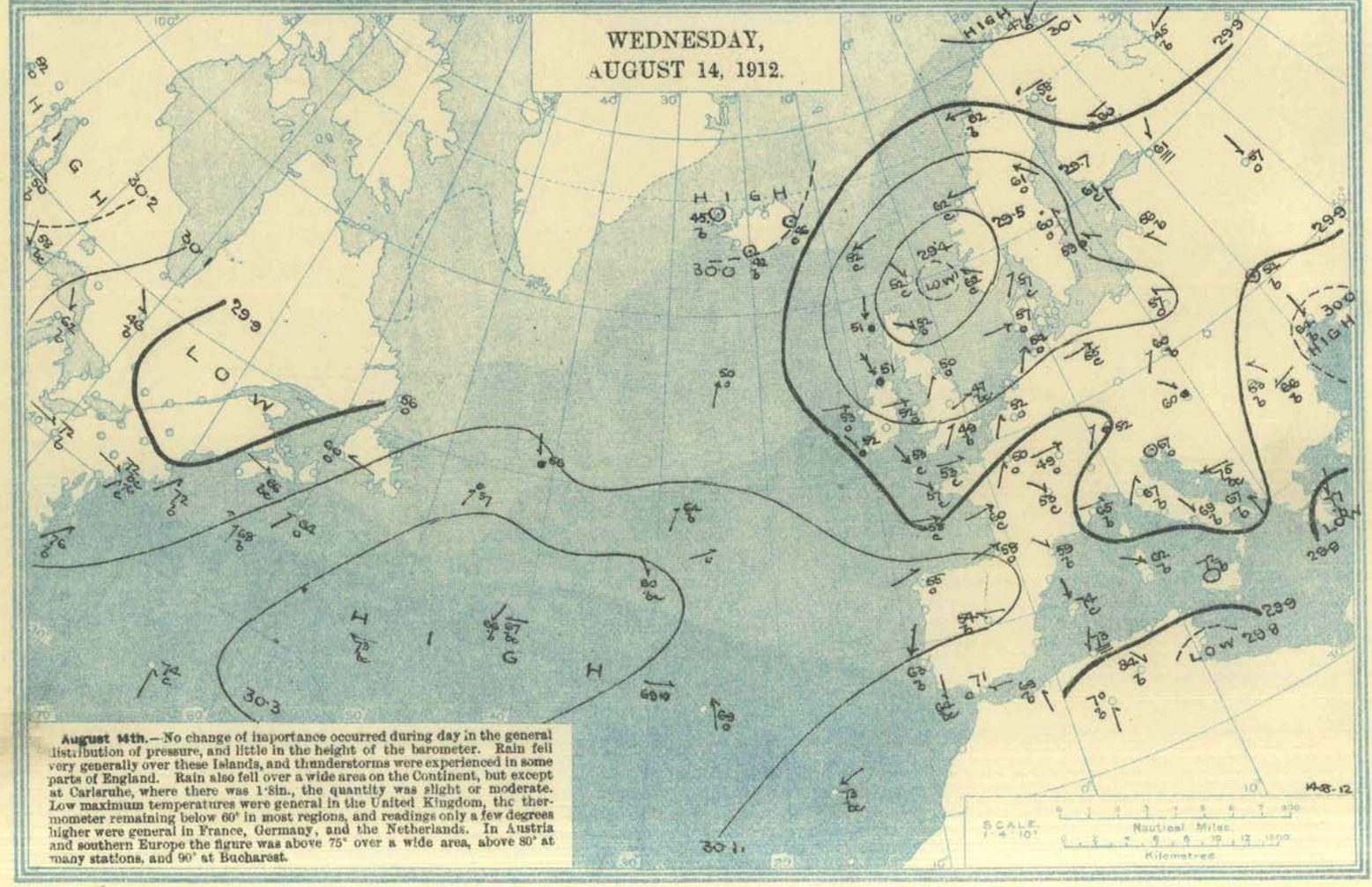
August 12th.—A depression centered over the mouth of the English Channel, moved eastward and increased in intensity during day, while the disturbance over the Baltic region extended in a westerly direction. Very heavy rain fell in the Channel Islands, 2·2in. at Jersey, and considerable quantities in the south and south-west of England. Heavy rain was also experienced over the greater part of France, 0·8in. at Belfort, 1·0in. at Paris and La Hague, 1·2in. at Cherbourg and Dunkirk, and 1·8in. at Cape Gris Nez. The maximum temperature was below 60° over the major portion of the United Kingdom, and below 70° over a wide area in France and central Europe. At Haparanda the reading was 75°, and at Bodö 72°.

TUESDAY, AUGUST 13, 1912.

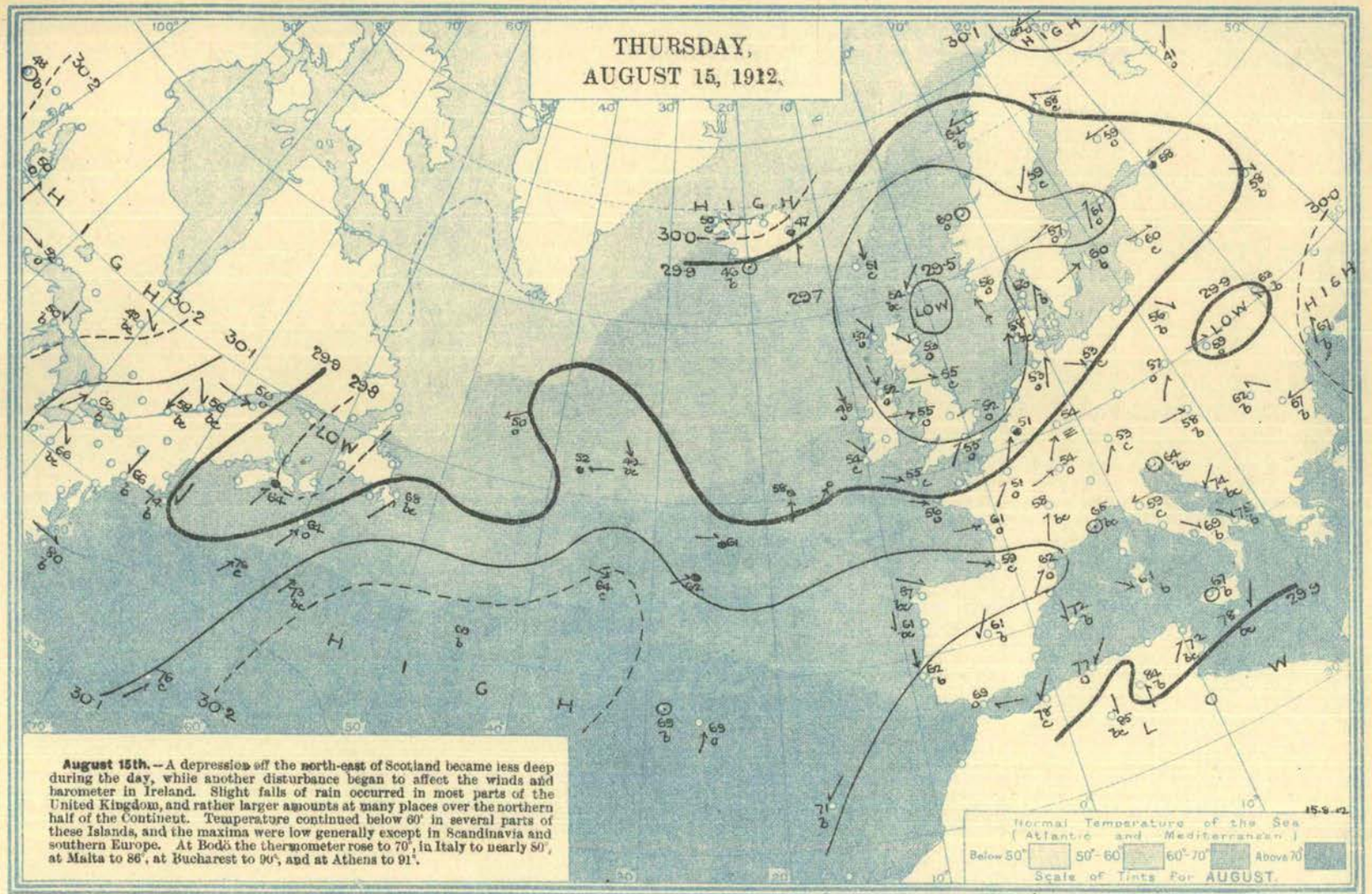


August 13th.—A depression moved westward towards Shetland during day and the wind increased from the Northward on our north and north-west coasts. At Malin Head it blew a gale. Thunderstorms occurred locally in the south and east of England and rain fell over these Islands generally. Rain was again reported from a large portion of the Continent; 0·9in. at Brest, Breslau, and Berne, and 1·1in. at Lugano. Temperature remained below 60° in most parts of the United Kingdom and the Netherlands, and rose to very little above it in the north of France, but readings above 80° were recorded at many stations in southern Europe; 87° at Brindisi, 91° at Athens, and 97° at Malaga.

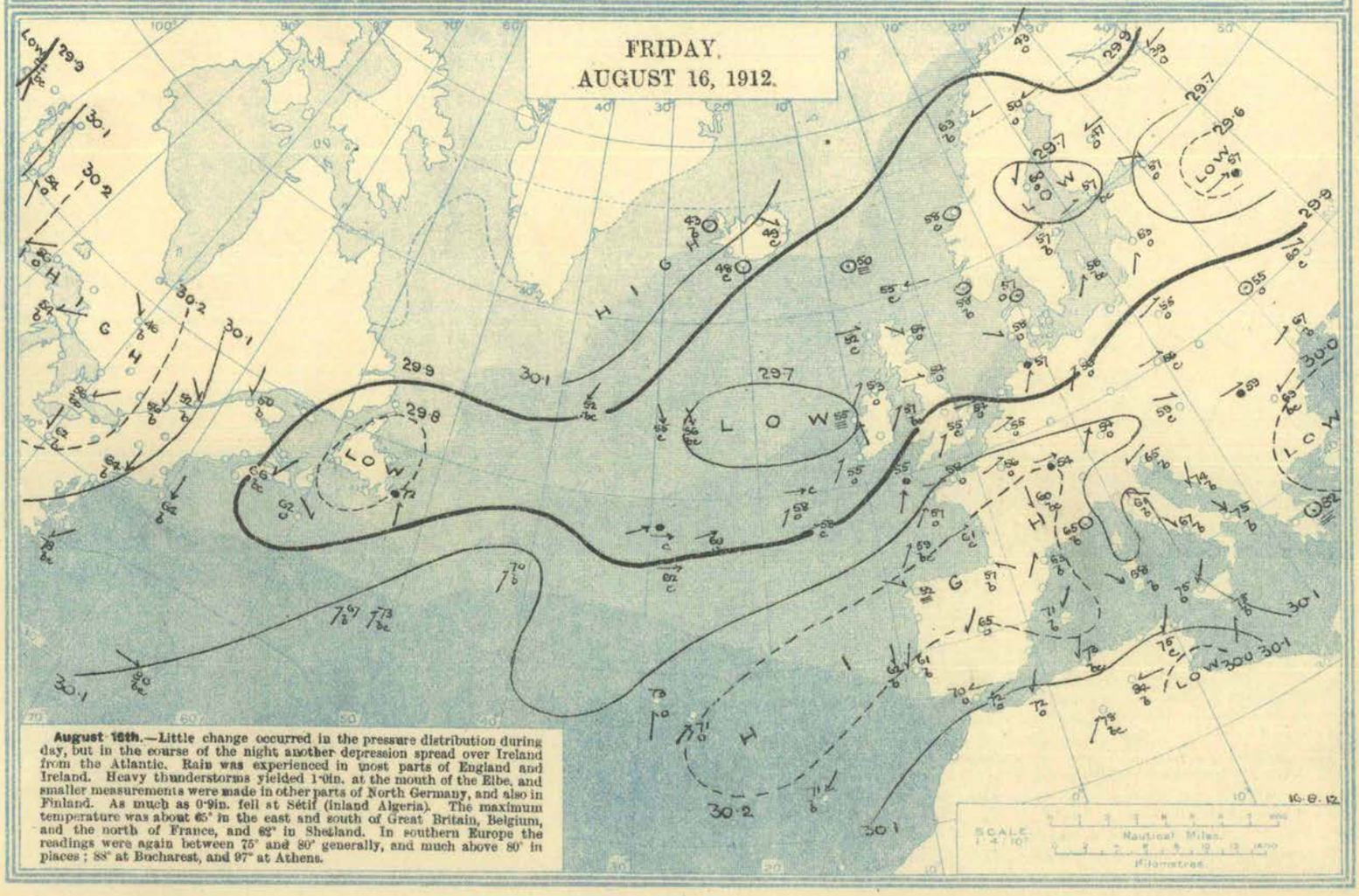
WEDNESDAY, AUGUST 14, 1912.



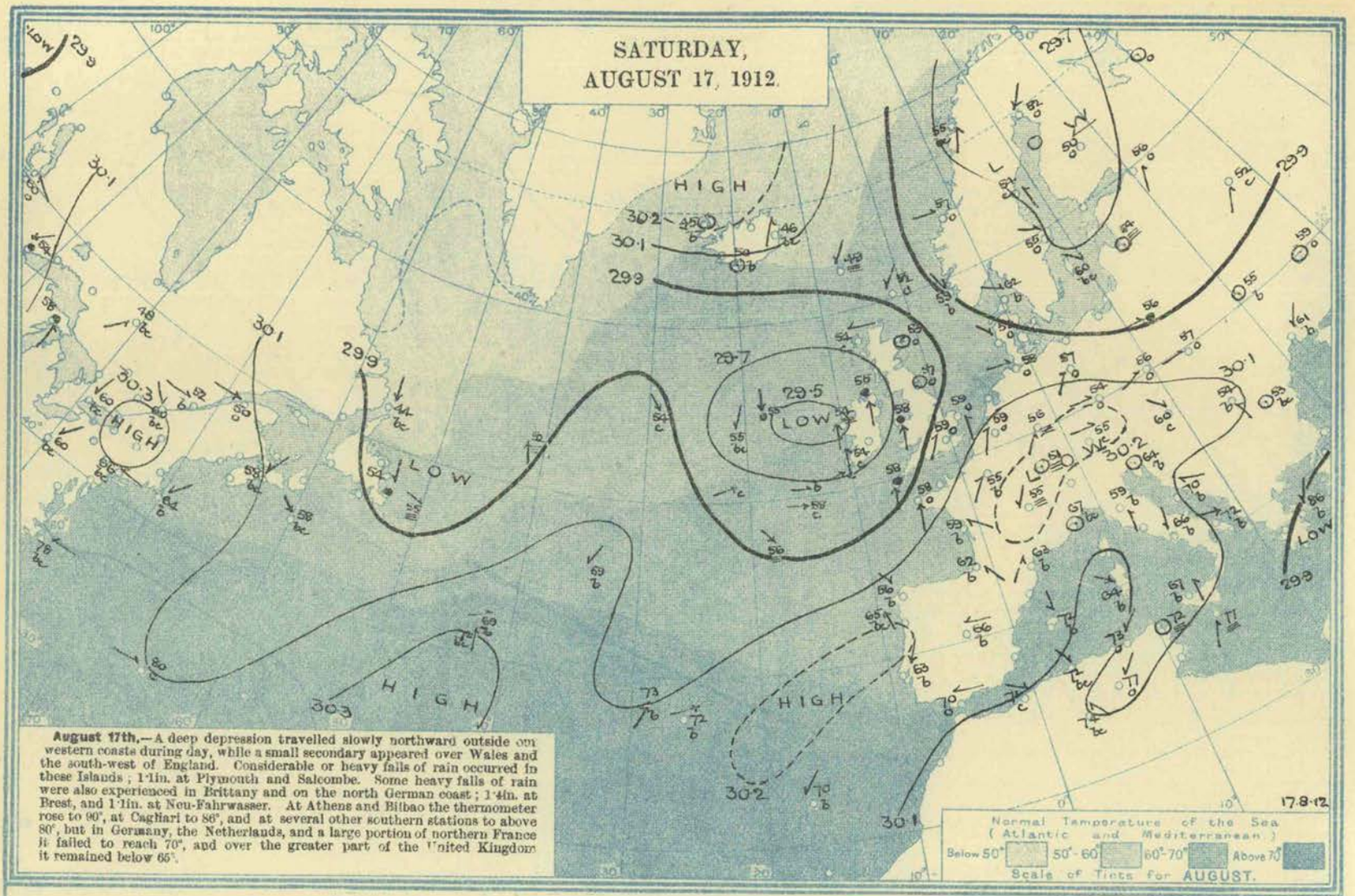
August 14th.—No change of importance occurred during day in the general distribution of pressure, and little in the height of the barometer. Rain fell very generally over these Islands, and thunderstorms were experienced in some parts of England. Rain also fell over a wide area on the Continent, but except at Carlsruhe, where there was 1·8in., the quantity was slight or moderate. Low maximum temperatures were general in the United Kingdom, the thermometer remaining below 60° in most regions, and readings only a few degrees higher were general in France, Germany, and the Netherlands. In Austria and southern Europe the figure was above 75° over a wide area, above 80° at many stations, and 90° at Bucharest.



August 15th.—A depression off the north-east of Scotland became less deep during the day, while another disturbance began to affect the winds and barometer in Ireland. Slight falls of rain occurred in most parts of the United Kingdom, and rather larger amounts at many places over the northern half of the Continent. Temperature continued below 60° in several parts of these Islands, and the maxima were low generally except in Scandinavia and southern Europe. At Bodö the thermometer rose to 70°, in Italy to nearly 80°, at Malta to 86°, at Bucharest to 90°, and at Athens to 91°.

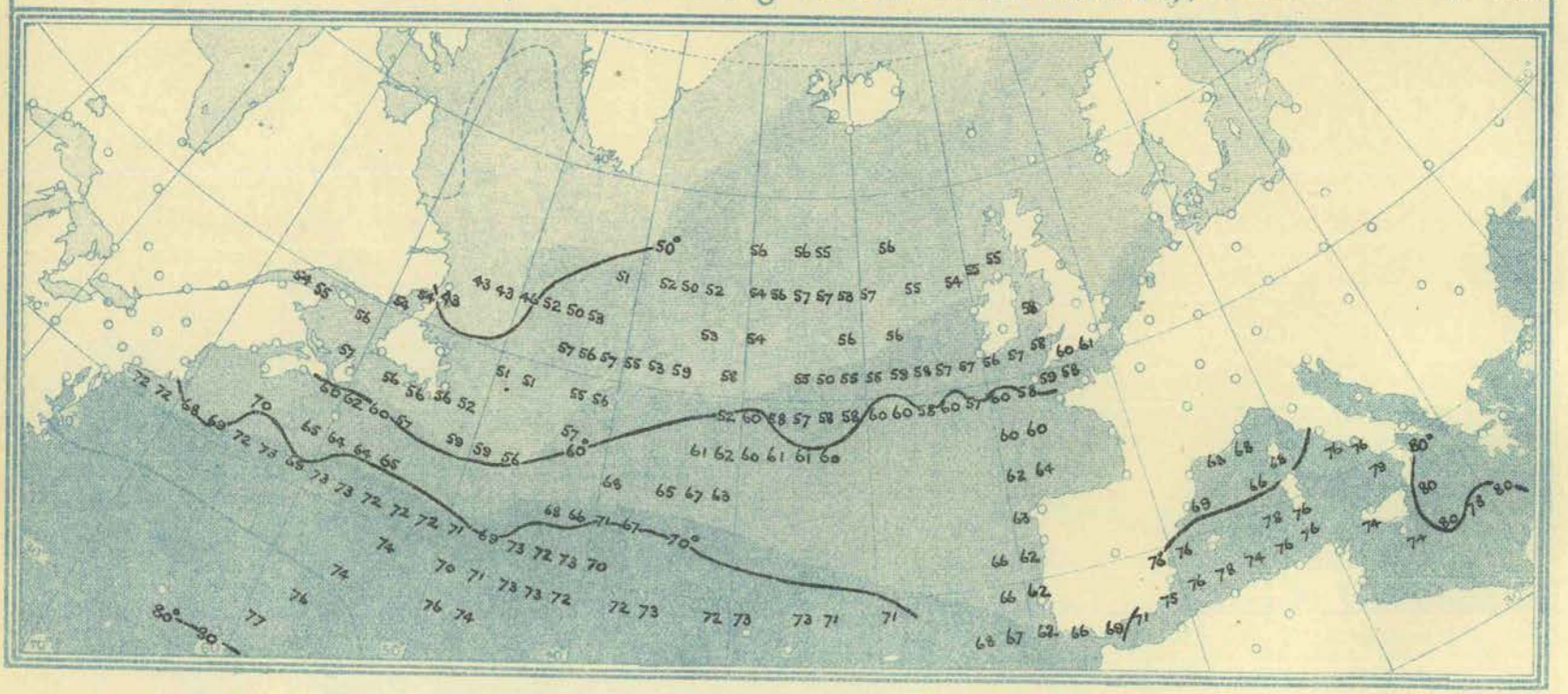


August 16th.—Little change occurred in the pressure distribution during day, but in the course of the night another depression spread over Ireland from the Atlantic. Rain was experienced in most parts of England and Ireland. Heavy thunderstorms yielded 1·0in. at the mouth of the Elbe, and smaller measurements were made in other parts of North Germany, and also in Finland. As much as 0·9in. fell at Sétif (inland Algeria). The maximum temperature was about 65° in the east and south of Great Britain, Belgium, and the north of France, and 62° in Shetland. In southern Europe the readings were again between 75° and 80° generally, and much above 80° in places; 88° at Bucharest, and 97° at Athens.



August 17th.—A deep depression travelled slowly northward outside our western coasts during day, while a small secondary appeared over Wales and the south-west of England. Considerable or heavy falls of rain occurred in these Islands; 1·1in. at Plymouth and Salcombe. Some heavy falls of rain were also experienced in Brittany and on the north German coast; 1·4in. at Brest, and 1·1in. at Neu-Fahrwasser. At Athens and Bilbao the thermometer rose to 90°, at Cagliari to 86°, and at several other southern stations to above 80°, but in Germany, the Netherlands, and a large portion of northern France it failed to reach 70°, and over the greater part of the United Kingdom it remained below 65°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 17TH AUGUST, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* } No. 34. THIRTY-FOURTH WEEK, SUNDAY, AUGUST 18TH, TO SATURDAY, AUGUST 24TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition was again extremely unsettled over the Kingdom as a whole, but in some localities in Scotland, Ireland and the north-east of England rain was less common than elsewhere. Thunderstorms occurred in many parts of England during the earlier half of the week, especially in the eastern half of the country.

Temperature continued below the normal, the deficit exceeding 3° in most districts. The highest of the maxima occurred at most stations early in the week, and ranged from 70° in England South-West to 63° in Ireland North. At many places in the north-west and north the maxima were below 60° on several successive days. The lowest of the minima, which were mainly recorded between the 21st and 23rd, varied from 32° in Scotland East, 35° in Scotland North, and 37° in Ireland, to 45° in England East, and to 52° in the English Channel. The lowest grass readings were 27° at Crathes, 28° at Balmoral, 30° at Marlborough, and 31° at Cheadle and Markree Castle. Throughout the whole Kingdom the temperature at 1 ft. below the surface of the soil, and at 4 feet, also was below the normal.

Mean Temperature of the Sea. The temperature was lower than the average very generally, and lower also than during the corresponding week of last year. The mean for the week ranged from 61° at Eastbourne and Margate, and 59° at Newquay, to 53° at Burnmouth and Wick.

Rainfall was more than the mean in all districts except Scotland West, the excess being large generally. Over a considerable portion of England more than twice, and in England South-West nearly three times as much as the average quantity was collected. Measurements of an inch and above in a period of 24 hours were numerous, the largest amounts being 1·30 in. at Glencarron on the 20th, 1·48 in. at Manchester, and 1·52 in. at Arlington (North Devon) on the 23rd; 1·55 in. at Foynes on the 22nd; and 1·63 in. at Over Court (Bristol) on the 19th.

Bright Sunshine was everywhere much in defect. In England South-West the mean daily duration was less than 2 hours, and in England South-East, where it was highest, it was only 3·3 hours. In the latter district the percentage of the possible duration was 23, in the English Channel 22, and in England E. 21. In Scotland East it was only 14 and in England South-West only 13.

Barometer and Wind. No change of importance occurred in the general distribution of pressure. With the barometer high both over Iceland and far to the southward or south-westward of these islands, depressions from the Atlantic continued to appear over the United Kingdom, and to move subsequently eastward or north-eastward. Over the southern half of these Islands the wind was mostly between South-West and West, and often strong, brief gales were experienced at exposed stations on the Channel. In the north the direction was more variable—sometimes from the Eastward. At Malin Head a gale from North-North-West was reported on the 20th, and from the Eastward on the 22nd.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 135.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Heavy	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Moderate	Heavy	Very heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 12 weeks from June 2nd, 1912.	Warmth ...	0 * 6	0 * 7	2 * 6	4 * 5	3 * 6	3 * 6	2 * 5	2 * 6	1 * 7	0 * 7	0 * 8	2 * 6
	Rainfall ...	4 * 2	4 * 1	9 * 0	6 * 1	7 * 2	7 * 3	6 * 3	8 * 2	8 * 1	7 * 2	7 * 2	7 * 1
	Sunshine ...	1 * 7	0 *11	0 *10	2 * 6	0 * 8	0 * 7	1 * 7	1 * 9	1 * 9	1 * 8	1 *10	0 * 8

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 5	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(26065—24.) Wt. 173—814. 450. 8/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*59*	*20, 21, 22*	*39*	*20th*	*56·3*	*46·4*	*51·1*	—	*64*	*0*	•	•					*4*	*1·26*	—	*2·0*	—	*13*	—	*Baltasound.*
a Lerwick	58	20, 21, 22	44	20th	56·1	49·1	52·4	+ 0·3	73	0	•	•	•	•	•	•	3	2·31	—	1·0	- 2·8	7	-19	Deerness.
a, Islands .. *a* Stornoway	57	23, 24	39	23rd	54·7	45·4	49·8	- 4·0	55	0	•	•	•	•	•	•	5	1·32	+ 0·36	3·4	- 0·8	23	- 6	Stornoway.
a Castlebay, Barra Isd. .	*59*	*18th*	*46*	*24th*	*55·7*	*48·0*	*51·6*	- 4·7	*67*	*0*							*2*	*0·16*	—	*4·6*	—	*32*	—	*Castlebay.*
a Wick	59	21st	39	24th	55·4	47·0	51·0	- 3·0	63	0	•	•	•	•	•	•	4	0·86	+ 0·22	•	•	•	•	
p Strathpeffer ..	62	18, 24	37	23rd	59·7	45·9	52·4	- 2·4	73	0	•	•	•	•	•	•	3	1·58	+ 0·98	3·7	- 0·2	25	- 1	Strathpeffer.
b, Mainland. *p* Glencarron ..	61	18, 24	41	24th	56·7	45·1	50·6	- 2·7	60	0	•	•	•	•	•	•	6	2·25	+ 0·25	•	•	•	•	
p Fort Augustus..	61	18th	35	23rd	57·6	47·1	52·0	- 3·3	70	0	•	•	•	•	•	•	4	1·23	+ 0·41	2·2	- 0·7	15	- 5	Fort Augustus.
p Fort William ..	65	18th	39	23rd	60·0	45·7	52·4	- 3·1	73	0	•	•	•	•	•	•	5	0·44	- 1·00	•	•	•	•	
1. SCOTLAND, E.											1	27	56·1	-1·1	54·6	-1·1	—	—	—	1·2	—	8	—	Crathes S.
p Gordon Castle..	61	18th	38	24th	57·6	46·4	51·7	- 3·9	68	0	•	•	•	•	•	•	4	1·06	+ 0·33	*2·4*	—	*16*	—	*Gordon Castle.*
a Nairn	61	18th	37	23rd	57·0	44·9	50·6	- 4·8	60	0	•	•	•	•	•	•	5	1·35	+ 0·80	3·3	—	22	—	Nairn.
a Aberdeen ..	60	18th	39	23rd	58·0	47·4	52·4	- 3·3	73	0	•	•	•	•	52·8	-1·4	4	0·53	- 0·10	2·0	- 2·8	14	-19	Aberdeen.
a Balmoral ..	67	23rd	32	23rd	61·0	44·9	52·5	0·0	74	0	1	28	•	•	•	•	4	1·35	+ 0·54	•	•	•	•	Balmoral.
p Crieff	65	18th	41	23rd	58·3	46·3	51·9	- 4·6	69	0	•	•	•	•	•	•	4	1·13	+ 0·20	1·3	—	9	—	Balruddery.
a Leith	65	18th	46	23rd	59·1	48·7	53·6	- 4·1	81	0	•	•	•	•	•	•	4	1·14	+ 0·52	•	•	•	•	
p West Linton ..	64	18th	40	22, 23	56·9	43·4	49·8	- 4·4	65	0	0	35	•	•	•	•	6	0·90	—	*1·8*	—	*13*	—	*West Linton.*
p Marchmont ..	66	18th	43	22, 23	58·4	46·0	51·8	- 3·0	69	0	0	40	54·7	-2·1	•	•	4	0·94	+ 0·19	2·1	- 2·7	15	-18	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	57	18th	46	19, 21, 23	60·3	48·0	53·8	- 2·3	83	0	0	39	53·7	-2·6	54·1	-1·6	4	1·40	+ 0·72	2·0	—	14	—	Cockle Park.
a Shields	64	18, 19	45	22nd	60·1	49·1	54·3	- 2·7	86	0	•	•	•	•	•	•	7	1·07	+ 0·48	•	•	•	•	*Newcastle.*
p Durham	63	21st	41	22nd	60·1	47·0	53·2	- 3·9	78	0	0	35	•	•	•	•	5	1·17	+ 0·62	1·9	- 2·8	13	-19	Durham.
a, North .. *p* Rounton	63	18th	41	22nd	59·9	47·3	53·2	- 3·3	78	0	0	35	57·4	•	•	•	5	1·13	+ 0·55	•	•	•	•	Rounton.
a West Witton ..	*62*	*18th*	*42*	*22nd*	*58·1*	*47·4*	*52·4*	—	*73*	*0*	0	38	56·9	•	54·6	•	*7*	*1·22*	—	•	•	•	•	*West Witton.*
p Scarborough ..	65	18th	46	21st	60·7	50·2	55·1	- 2·7	92	0	•	•	•	•	58·3†	•	4	0·83	+ 0·23	1·5	—	11	—	Scarborough.
p York	66	18th	44	22nd	62·7	49·3	55·6	- 2·6	95	0	•	•	58·3	-1·1	57·0	-0·6	6	1·03	+ 0·47	2·0	- 2·7	14	-19	York.
a Spurn Head ..	64	19th	46	21st	60·9	50·0	55·1	- 3·8	92	0	0	41	56·9	-2·4	56·0	-0·8	4	0·78	+ 0·33	*0·8*	—	*6*	—	*Hull.*
b, South .. *a* Lincoln	66	18th	45	21st	62·7	50·0	56·0	- 3·1	98	0	•	•	56·5	-3·9	56·3	-1·8	6	1·08	+ 0·58	•	•	•	•	Lincoln.
a Fulbeck	65	18th	41	21, 22	62·0	50·3	55·8	- 3·2	97	0	0	41	58·4	-4·2	56·4	-3·0	7	0·98	+ 0·42	3·2	—	22	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·7	—	19	—	Skegness.
											0	44	60·2	-2·7	59·4	-1·1	—	—	—	*4·0*	—	*28*	—	*Lowestoft.*
3. ENGLAND, E.																	7	1·65	—	2·5	—	18	—	Cromer.
p Cromer	67	19th	45	21st	62·7	50·0	56·0	- 2·5	98	0	•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
p Hillington											•	•	•	•	•	•				1·8	—	25	—	Yarmouth.
a, North .. *a* Yarmouth	69	18th	47	21, 23	64·1	51·6	57·5	- 1·9	109	0	•	•	59·4	-4·7	59·0	-3·3	6	1·41	+ 0·88	*3·1*	—	*22*	—	*Norwich.*
a Norwich	68	18th	46	21st	63·9	51·0	57·1	- 2·5	106	0	0	39	59·3	•	•	•	7	1·89	—	3·4	- 2·6	24	-19	Geldeston.
p Geldeston	69	18, 19	46	21, 23	64·9	51·3	57·7	- 1·3	110	0	•	•	•	•	•	•	6	1·63	+ 1·13					
p Cambridge	66	18, 19, 20	45	21st	64·0	51·3	57·3	- 2·7	107	0	0	42	59·1	-3·0	59·0	-1·5	7	3·04	+ 2·52	2·8	- 3·1	20	-22	Cambridge.
a Fellixstowe ..	*66*	*18th*	*48*	*21st*	*63·3*	*53·9*	*58·3*	- *2·2*	*114*	*0*	•	•	•	•	•	•	*7*	*1·41*	—	*4·1*	—	*29*	—	*Felixstowe.*
a Clacton-on-Sea ..	67	18th	49	21, 22	63·7	53·4	58·2	- 2·5	113	0	0	43	59·1	-2·4	58·6	-2·0	6	0·97	—	3·6	—	25	—	Clacton.
b, South .. *a* Rothamsted ..	64	18th	46	21, 22	62·5	51·0	56·4	- 2·2	101	0	•	•	•	•	•	•	7	2·40	+ 1·83	2·6	- 3·3	18	-24	Rothamsted.
a Shoeburyness ..	*68*	*18th*	*49*	*22nd*	*64·4*	*53·9*	*58·8*	- *2·9*	*118*	*0*	0	41	61·7	-4·2	•	•	*6*	*0·91*	+ *0·52*	*3·7*	—	*26*	—	*Southend.*
p Tottenham	68	19th	47	21st	62·7	53·0	57·6	- 2·6	109	0	0	42	•	•	60·0	-2·3	7	1·42	—	2·9	—	20	—	Tottenham.
											0	42	56·8	-3·7	55·1	-2·3	—	—	—	*2·4*	—	*17*	—	*Huddersfield.*
4. MIDLAND COUNTIES.																				2·3	—	16	—	Harrogate.
a Harrogate	63	18th	41	22nd	59·1	48·0	53·2	- 3·3	78	0	0	35	55·8	-1·0	55·3	-0·8	6	1·25	+ 0·62	1·9	- 2·7	13	-19	Worksop.
a Bawtry	65	19th	44	21st	61·7	49·1	55·0	- 3·4	91	0	0	38	57·5	•	56·3	•	4	1·38	+ 0·86	1·9	- 2·7	13	-19	Worksop.
p Buxton	*62*	*18th*	*45*	*21st*	*57·9*	*49·3*	*53·3*	- *2·0*	*79*	*0*	0	40	56·1	-2·4	53·4	-2·1	*7*	*2·51*	+ *1·51*	*2·6*	—	*18*	—	*Buxton.*
a East .. *a* Nottingham ..	66	18th	43	21st	62·6	49·7	55·8	- 2·8	97	0	0	38	57·4	-2·2	57·4	-2·0	7	1·25	+ 0·71	2·5	—	18	—	Nottingham.
p Birmingham, Edgbn.	63	18th	43	21st	61·0	49·4	54·9	- 3·3	90	0	0	37	53·5	-3·1	52·9	-1·7	7	1·83	+ 1·22	2·5	—	18	—	Birmingham.
a Raunds	66	19th	43	21st	63·4	49·7	56·1	- 2·7	99	0	0	40	59·2	•	57·9	•	7	2·16	—	•	•	•	•	Raunds.
a Oxford	65	24th	46	21, 22	62·3	51·4	56·5	- 3·1	102	0	•	•	•	•	•	•	7	1·29	+ 0·79	2·6	- 3·2	18	-23	Oxford.
											0	42	57·0	-1·8	55·1	-0·7	—	—	—	2·6	—	18	—	Sheffield.
a Cheadle	62	18th	42	20, 21	59·7	47·7	53·3	- 3·2	79	0	0	31	•	•	•	•	5	2·22	+ 1·46	•	•	•	•	Cheadle.
p Shrewsbury ..	64	18th	43	21st	61·1	48·7	54·5	- 3·9	88	0	0	40	•	•	•	•	6	0·93	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	66	23, 24	45	22nd	62·9	49·7	55·9	- 3·0	97	0	0	39	•	•	•	•	7	1·66	+ 1·11	•	•	•	•	Hereford.
a Cirencester ..	65	24th	41	21st	61·9	48·9	55·0	- 2·7	91	0	0	40	56·4	•	56·0	•	7	1·72	+ 1·07	2·6	- 3·1	18	-22	Cirencester.
a Bath	69	24th	45	21st	63·9	51·9	57·5	- 1·8	109	0	•	•	59·4	-3·8	59·2	-2·5	7	1·72	+ 1·11	2·0	—	14	—	Bath.
5. ENGLAND, S.E.																				•	•	•	•	Canterbury.
p Kew	67	18th	48	21st	64·0	53·0	58·2	- 1·8	113	0	0	42	60·5	-1·7	59·7	-1·6	—	—	—	3·1	- 2·8	22	-20	Kew.
a Marlborough ..	65	24th	42	22nd	61·4	49·8	55·3	- 2·1	93	0	0	42	59·3	-2·6	57·9	-1·3	7	1·71	+ 1·19	1·6	- 4·0	11	-28	Marlborough
a Margate	68	18th	47	21st	64·7	52·9	58·5	- 2·7	116	0	1	30	57·1	•	56·1	•	7	1·92	+ 1·32	3·2	- 2·8	23	-19	Margate.
a Wisley, Surrey ..	65	18, 23	46	21st	63·4	52·0	57·4	- 3·4	108	0	•	•	59·4	-2·8	58·0	-2·4	7	1·22	+ 0·77	3·4	—	24	—	Wisley
a Swarraton	64	19, 23	46	21st	61·7	51·9	56·5	- 2·0	102	0	0	43	59·9	-2·2	58·8	-2·0	7	1·60	—	3·3	—	24	—	Worthing.
a Tunbridge Wells ..	66	18th	44	21st	62·9	50·6	56·4	- 2·8	101	0	0	44	60·8	-3·0	59·6	-1·8	7	1·83	+ 1·26	4·3	- 1·9	31	-13	Tunbridge Wells.
a Dungeness	66	19, 22	50	21st	63·7	54·4	58·8	- 2·0	118	0	0	41	60·4	-2·8	•	•	7	1·55	+ 1·04	3·9	—	28	—	Littlestone.
p Hastings.. ..	65	18, 19	46	21st	63·1	53·3	57·9	- 2·8	111	0	•	•	•	•	•	•	7	0·92	+ 0·47	*3·7*	- *3·0*	*27*	- *21*	*Hastings.*
p Southampton ..	65	19, 23, 24	45	21st	63·3	51·9	57·3	- 4·1	107	0	0	41	61·6	•	60·5	•	7	1·44	+ 0·90	3·2	- 3·3	23	-24	Southampton.
a Ventnor	65	19th	50	22nd	62·6	54·1	58·1	- 3·6	113	0	0	39	•	•	•	•	7	1·57	+ 0·98	3·2	- 3·3	23	-24	Ventnor.
											•	•	•	•	•	•	7	1·00	+ 0·50	2·6	- 3·9	19	-29	Ventnor.
											0	46	60·1	-4·1	59·9	-2·3	—	—	—	*3·6*	—	*26*	—	*Portsmouth.*
											•	•	60·7	•	59·9	•	—	—	—	4·1	- 2·4	29	-17	Eastbourne.
											•	•	53·9	•	59·1	•	—	—	—	*3·1*	—	*22*	—	*Bournemouth.*
LONDON.											0	45	•	•	60·4	•	—	—	—	*3·2*	- *3·6*	*23*	- *26*	*Brighton.*
a Westminster	*66*	*18, 19, 23*	*48*	*21st*	*64·3*	*54·3*	*59·0*	- *1·6*	*119*	*0*	0	46	•	•	•	•	7	*1·40*	+ *0·88*	*3·0*	- *2·2*	*21*	- *16*	*Westminster.*
a Greenwich	*70*	*18th*	*47*	*21st*	*66·0*	*52·0*	*58·6*	- *2·5*	*116*	*0*	0	41	•	•	•	•	7	*1·36*	+ *0·89*	*3·5*	- *3·0*	*25*	- *21*	*Greenwich.*
a Hampstead	*65*	*18th*	*45*	*21st*	*62·1*	*51·6*	*56·5*	—	*102*	*0*	0	34	•	•	•	•	7	*1·75*	—	*2·7*	—	*19*	—	*Hampstead.*
a Camden Square ..	*69*	*18, 19*	*46*	*21st*	*65·7*	*52·0*	*58·4*	—	*115*	*0*	0	44	•	•	•	•	7	*1·60*	—	*3·2*	—	*23*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch ..	63	18th	46	23rd	58·0	43·3	53·4	- 3·0	80	0	•	•	•	•	•	•	5	0·59	- 0·51	•	•	•	•	
p Glasgow	63	18th	47	22nd	57·7	49·3	53·3	- 2·5	79	0	0	40	•	•	•	•	4	0·55	- 0·35	1·6	- 2·5	11	-18	Glasgow.
p Rothesay	64	19th	47	22, 23	59·2	48·3	53·5	- 2·7	81	0	•	•	•	•	55·0	-1·0	7	0·64	- 0·45	•	•	•	•	
a Kilmarnock ..	63	18th	44	22nd	58·4	47·7	52·7	- 3·2	75	0	•	•	•	•	•	•	6	0·76	—	*1·7*	—	*12*	—	*Kilmarnock.*
a Colmonell ..	62	18th	48	19, 21	59·0	49·6	54·0	- 2·8	84	0	0	43	•	•	•	•	5	1·22	+ 0·25	•	•	•	•	
p Dumfries ..	63	18th	44	22nd	58·3	48·7	53·2	- 4·2	78	0	0	37	57·9	•	58·0	•	6	1·41	+ 0·53	*2·6*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse	62	18, 19, 23	40	22nd	60·7	47·1	53·5	- 2·0	81	0	•	•	•	•	•	•	5	1·16	+ 0·10	•	•	•	•	
b I. OF MAN.																								
p Douglas	60	23, 24	45	22nd	58·7	49·9	54·0	- 2·3	84	0	0	43	•	•	•	•	6	1·36	+ 0·41	3·7	- 1·8	26	-13	Douglas.
											0	38	55·7	-2·1	54·8	-1·3	—	—	—	*1·8*	—	*13*	—	*Burnley.*
											0	46	•	•	•	•	—	—	—	2·6	—	18	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	63	18th	45	22nd	58·7	49·0	53·6	- 2·9	81	0	0	39	57·7	•	55·4	•	7	1·66	+ 0·67	2·8	—	20	—	Aspatria.
p Newton Rigg ..	62	18th	43	22nd	58·0	46·7	52·0	- 3·3	70	0	0	38	56·8	-2·0	55·0	-1·6	7	1·25	+ 0·46	2·6	- 2·2	18	-15	Newton Rigg.
p Stonyhurst	62	18th	45	22nd	58·7	49·0	53·8	- 3·1	81	0	0	40	•	•	•	•	7	1·41	+ 1·41	1·7	- 3·1	12	-21	Stonyhurst.
p Blackpool	63	18, 19	50	18, 20, 22	60·0	51·0	55·2	- 2·8	92	0	0	40	57·3	•	55·8	•	7	1·58	+ 0·74	3·1	- 2·0	22	-14	Blackpool.
p Manchester (Whit. Pk.)	*65*	*18th*	*44*	*22nd*	*60·7*	*50·9*	*55·5*	—	*95*	*0*	0	40	•	•	•	•	7	2·48	—	*1·8*	—	*13*	—	*Whit Park.*
a Liverpool (Bidston) ..	61	18, 19, 23	48	21st	58·9	50·3	54·3	- 3·4	86	0	•	•	•	•	•	•	7	1·85	+ 1·16	*2·5*	—	*18*	—	*Liverpool.*
a Hawarden Bridge ..	64	18th	48	21st	61·1	50·9	55·7	- 3·6	96	0	0	44	58·7	-3·3	58·9	-2·2	7	1·47	+ 0·81	*3·1*	- *2·3*	*22*	- *16*	*Southport.*
											0	45	57·3	-2·8	58·2	-1·4	—	—	—	*1·8*	—	*13*	—	*Manchester City).*
b, NORTH WALES.																								
p Llandudno	63	19th	49	21st	60·9	51·1	55·7	- 3·4	96	0	•	•	•	•	•	•	7	2·48	+ 1·78	2·5	- 2·7	18	-19	Llandudno.
a Holyhead	60	18, 22, 24	49	21st	59·7	52·3	55·8	- 2·8	97	0	•	•	•	•	•	•	6	1·45	—	2·2	—	15	—	Aberdovey.
p Bettws-y-Coed ..	61	23, 24	43	22nd	60·1	48·9	54·2	- 4·2	85	0	0	43	56·1	-1·3	55·0	-0·4	5	1·90	—	1·8	—	13	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.																**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°,	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				1·8	—	13	—	Aberystwyth.
a Llangammarch Wells	63	24th	43	21st	59·7	47·6	53·3	– 3·4	79	0	0	39	55·5	–3·6	54·3	–1·7	6	2·70	—	2·0	—	14	—	Llangammarch
a Pembroke	63	24th	52	18, 22, 23	59·3	53·0	56·0	– 2·3	98	0	*	*	*	*	*	*	7	1·60	+ 0·93	1·0	– 5·1	7	–36	Pembroke.[Wells
p Cardiff	67	24th	45	21st	61·1	49·9	55·2	– 4·5	92	0	0	37	57·8	–4·0	57·2	–2·7	7	2·77	+ 1·81	2·7	—	*19*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	67	24th	48	21st	62·1	51·7	56·6	– 3·6	102	0	0	45	*	*	*	*	7	3·03	+ 2·24	2·7	—	*19*	—	*Clifton.*
a Shaftesbury	65	23th	43	21st	60·4	48·4	54·0	– 4·2	84	0	*	*	56·3	*	56·8	*	7	2·50	+ 1·82	*	*	*	*	Shaftesbury.
a Arlington	63	24th	43	22nd	58·9	48·7	53·5	– 3·8	81	0	*	*	57·8	*	*	*	6	4·40	+ 3·27	1·6	– 4·9	11	–35	Newquay.
a Cullompton	70	24th	45	21st	63·3	50·9	56·7	– 2·1	103	0	0	43	57·7	*	*	*	7	3·50	+ 1·83	1·4	– 4·4	10	–32	Cullompton.
a Portland	62	19, 22, 24	51	18, 21, 22	60·4	54·9	57·5	– 3·2	109	0	*	*	*	*	*	*	7	1·27	—	*3·1*	—	*22*	—	*Weymouth.*
p Plymouth	65	24th	50	21st	61·1	52·8	56·7	– 3·4	103	0	0	40	58·1	–5·3	*	*	6	1·81	+ 1·17	2·3	– 3·9	16	–28	Plymouth.
p Falmouth	62	24th	49	21st	59·9	52·6	56·0	– 3·5	98	0	*	*	*	*	*	*	7	3·16	+ 2·42	2·4	– 4·3	17	–31	Falmouth.
9. IRELAND. N.																								
a Malin Head	60	18th	47	18th	56·7	49·0	52·6	– 3·7	74	0	*	*	*	*	*	*	4	0·42	– 0·36	*	*	*	*	* *
a, West .. *a* Blacksod Point ..	63	18th	44	22nd	58·4	49·3	53·6	– 3·4	81	0	*	*	*	*	*	*	3	1·26	+ 0·16	*	*	*	*	* *
p Markree Castle ..	63	18th	37	22nd	60·0	44·9	52·0	– 3·8	70	0	0	31	57·3	*	55·7	*	6	2·07	+ 1·08	2·0	– 2·1	14	–15	Markree Castle.
a Birr Castle ..	63	18, 19	40	21, 22	60·6	44·1	51·9	– 5·2	69	0	*	*	*	*	*	*	7	1·44	+ 0·55	*3·4*	– *1·2*	*24*	– *8*	*Birr Castle.*
b, East .. *p* Armagh	63	18th	43	18, 21, 22	60·1	46·4	52·8	– 3·5	76	0	0	37	57·7	–2·5	56·0	–2·3	4	1·91	+ 1·06	2·4	– 1·7	17	–12	Armagh.
a Donaghadee	63	19th	44	22nd	59·7	49·1	54·1	– 2·7	85	0	*	*	*	*	*	*	4	1·68	+ 0·91	*	*	*	*	* *
											0	38	57·1	–3·3	56·0	–2·5	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	38	*	*	*	*	—	—	—	1·6	– 3·6	11	–25	Phœnix Park.
p Dublin, City	64	23rd	45	21, 22	60·4	49·0	54·4	– 4·4	87	0	0	43	*	*	*	*	5	1·24	+ 0·50	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	64	23rd	37	22nd	60·4	45·9	53·7	– 4·7	75	0	*	*	*	*	*	*	5	1·06	+ 0·25	*	*	*	*	* *
a Waterford	64	23rd	41	22nd	60·1	47·4	53·4	– 4·7	80	0	*	*	*	*	*	*	5	1·41	+ 0·53	*	*	*	*	* *
a Birr Castle	63	18, 19	40	21, 22	60·6	44·1	51·9	– 5·2	69	0	*	*	*	*	*	*	7	1·44	+ 0·55	3·4	– 1·2	24	– 8	Birr Castle.
a Foynes	63	18, 19	46	19, 21	60·4	49·1	54·4	– 3·5	87	0	*	*	*	*	*	*	7	2·63	+ 1·74	*	*	*	*	* *
a Cahir	64	23rd	41	21st	59·3	48·7	53·7	– 3·8	82	0	*	*	*	*	*	*	6	1·63	—	*	*	*	*	* *
b, West .. *a* Killarney	67	18th	48	21, 22	62·4	50·6	56·2	– 1·7	99	0	*	*	*	*	*	*	7	2·12	+ 1·06	*	*	*	*	* *
a Valencia	61	18th	48	21st	59·0	51·6	55·1	– 3·1	92	0	*	*	*	*	*	*	6	1·55	+ 0·41	2·1	– 2·8	15	–19	Valencia.
a Roche's Point	64	24th	47	21, 22	60·1	50·9	55·2	– 3·3	92	0	*	*	*	*	*	*	6	1·46	+ 0·56	1·5	—	11	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	61	22 24	52	18, 21	60·0	53·0	56·3	– 4·1	100	0	*	*	*	*	*	*	7	1·58	+ 1·01	2·0	– 5·2	14	–37	Scilly.
a Jersey, St. Aubins ..	67	19th	53	21st	63·6	56·0	59·8	– 2·8	123	0	*	*	*	*	*	*	7	1·21	+ 0·61	3·5	– 4·1	25	–30	St. Heliers.
a Guernsey (Villa Carey)	64	23rd	52	21st	62·1	55·0	58·3	– 3·1	114	0	0	47	60·7	–3·5	60·7	–1·6	7	1·71	+ 1·06	3·7	– 3·9	26	–28	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·5 hrs. 25 °/₀; Ramsgate, 4·3 hrs. 31 °/₀; Rhyl, 2·4 hrs. 17 °/₀; Salcombe, 3·6 hrs. 26 °/₀; Tenby, 2·0 hrs. (– 4·1) 14 °/₀ (– 29 °/₀); Torquay, 3·0 hrs. (– 3·6) 21 °/₀ (– 26 °/₀)*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 24th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	54	53	53·4	+0·5	SCOTLAND, W. ..	Lamlash	58	50	53·9	–2·1
	Kirkwall	60?	57?	58·9?	+3·6?		Ballantrae	58	53	55·7	–1·4
	Wick	54	52	53·0	–0·4	ENGLAND, N.W. ..	Port Erin	57	56	56·4	–0·6
	Cromarty	57	53	54·6	–1·6		Newquay	59	59	59·0	–2·6
SCOTLAND, E. ..	Pennan Bay	54	54	54·0	–1·6	ENGLAND, S.W. ..	Scilly	57	56	56·6	—
	Aberdeen, Cove Bay	55	54	54·2	–0·7		Plymouth‡	58	57	57·9	–2·6
	Burnmouth, Berwick	54	52	52·8	–1·9		Salcombe	59	56	57·6	–2·4
ENGLAND, N.E. ..	Scarborough ..	58	56	56·9	–0·1	IRELAND, N.W. ..	Sheephaven	58	51	55·5	–4·4
	Shipwash Lightship	63	58	60·5	–2·4		Teelin	61	56	56·9	–3·4
ENGLAND, E. ..	Margate‡	61	60	60·8	–3·3	IRELAND, S.W. ..	Cleggan	57	53	55·0	–2·8
ENGLAND, S.E. ..	Eastbourne‡	61	61	61·0	–2·8		Seafield	61	55	57·8	–2·6
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881–1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-FOURTH WEEK—August 18th to August 24th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	65	35	57·2	46·5	51·5	— 2·9	67	— 20	0	0	4	0	1·42	+0·42	2·6	—1·2	18	— 8
Eastern.																		
1. SCOTLAND, EAST ...	67	32	58·3	46·0	51·8	— 3·8	69	— 26	0	0	4	0	1·07	+0·32	2·0	—2·8	14	—19
2. ENGLAND, N.E.	67	41	61·0	49·0	54·7	— 2·8	89	— 20	0	0	5	+ 1	1·05	+0·43	2·2	—2·8	16	—20
3. ENGLAND, EAST ...	69	45	63·6	51·6	57·2	— 2·2	106	— 16	0	0	7	+ 3	1·80	+1·24	3·0	—2·8	21	—20
4. MIDLAND COUNTIES ...	69	41	61·8	49·5	55·2	— 3·2	92	— 23	0	0	6	+ 3	1·58	+0·93	2·4	—2·9	17	—20
5. ENGLAND, S.E.	68	42	63·1	52·4	57·4	— 3·2	108	— 22	0	0	7	+ 3	1·48	+0·85	3·3	—2·9	23	—21
Western.																		
6. SCOTLAND, WEST ...	64	40	58·8	48·7	53·5	— 2·8	81	— 19	0	0	6	+ 2	0·96	—0·13	2·7	—2·2	18	—15
7. ENGLAND, N.W.	64	43	59·6	49·9	54·8	— 3·4	88	— 23	0	0	7	+ 3	1·79	+0·90	2·4	—2·5	17	—17
8. ENGLAND, S.W.	70	43	60·6	51·1	55·6	— 3·3	95	— 24	0	0	7	+ 3	2·57	+1·71	1·8	—4·1	13	—29
9. IRELAND, NORTH ...	63	37	59·3	47·1	52·8	— 3·7	76	— 26	0	0	5	0	1·46	+0·52	2·2	—2·0	15	—14
10. IRELAND, SOUTH ...	67	37	60·3	48·6	58·1	— 3·8	85	— 27	0	0	6	+ 1	1·62	+0·64	2·2	—2·7	15	—19
11. ENGLISH CHANNEL ...	67	52	61·9	54·7	58·1	— 3·3	113	— 23	0	0	7	+ 3	1·50	+0·85	3·1	—4·1	22	—29

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 12 Weeks, June 2nd to Aug. 24th, 1912.

0. SCOTLAND, NORTH ...	74	35	*	*	*	*	943	— 81	0	— 2	51	0	9·61	+0·15	3·2	—1·1	19	— 7
Eastern.																		
1. SCOTLAND, EAST ...	87	31	*	*	*	*	1005	—144	0	— 1	52	+ 8	9·43	+1·83	2·6	—2·8	16	—17
2. ENGLAND, N.E.	86	35	*	*	*	*	1199	— 96	0	0	59	+20	11·33	+4·99	3·4	—2·5	20	—16
3. ENGLAND, EAST ...	91	38	*	*	*	*	1447	— 7	0	0	51	+14	8·29	+2·24	5·3	—1·3	34	— 8
4. MIDLAND COUNTIES ...	88	35	*	*	*	*	1284	—126	0	0	55	+18	11·56	+5·15	3·9	—2·0	25	—13
5. ENGLAND, S.E.	88	34	*	*	*	*	1422	—107	0	0	50	+15	9·00	+3·16	5·4	—1·4	34	— 9
Western.																		
6. SCOTLAND, WEST ...	83	35	*	*	*	*	1142	— 75	0	0	54	+ 8	10·97	+1·08	4·1	—1·6	25	—10
7. ENGLAND, N.W.	84	34	*	*	*	*	1231	—107	0	0	59	+17	12·91	+4·88	4·1	—1·8	26	—11
8. ENGLAND, S.W.	88	30	*	*	*	*	1274	—140	0	0	60	+19	15·33	+7·65	4·3	—2·2	27	—14
9. IRELAND, NORTH ...	75	33	*	*	*	*	1028	—203	0	0	57	+ 5	12·25	+3·30	4·0	—0·8	25	— 5
10 IRELAND, SOUTH ...	79	33	*	*	*	*	1147	—214	0	0	64	+19	14·07	+5·30	4·2	—1·2	27	— 7
11. ENGLISH CHANNEL ...	82	45	*	*	*	*	1398	—138	0	0	59	+18	13·25	+7·15	5·7	—2·2	37	—15

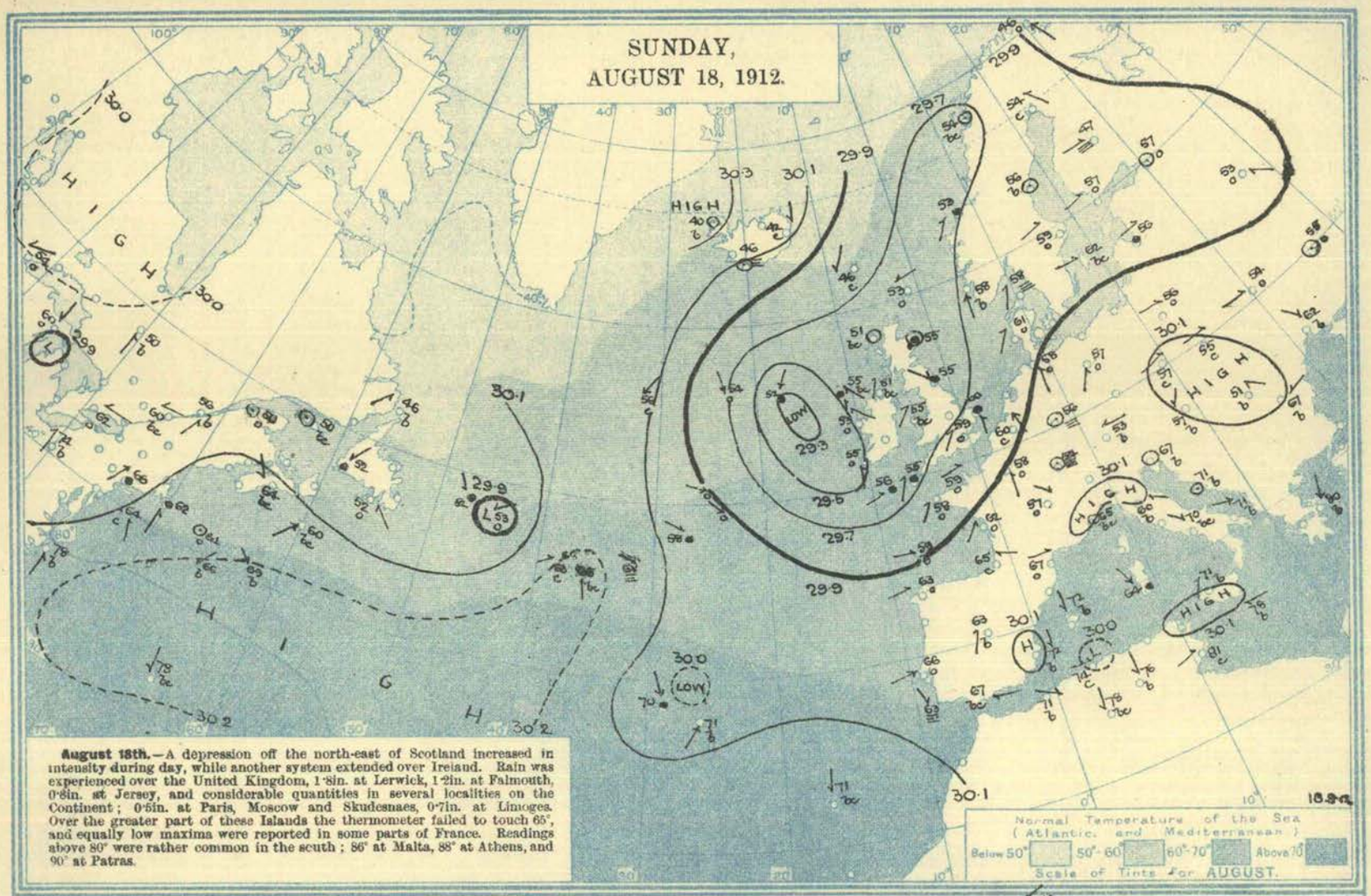
THE YEAR.—Aggregates, &c., for the Period of 34 Weeks, December 31st, 1911, to August 24th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1431	— 41	427	—130	155	0	29·83	—0·47	3·2	—0·4	24	— 3
Eastern.																		
1. SCOTLAND, EAST ...	87	—5	*	*	*	*	1611	— 69	519	—101	142	+14	19·99	+1·13	3·2	—1·8	24	— 8
2. ENGLAND, N.E.	86	10	*	*	*	*	1906	+ 59	373	—102	138	+22	20·99	+6·17	3·5	—1·1	26	— 9
3. ENGLAND, EAST ...	91	14	*	*	*	*	2328	+183	274	—247	128	+16	16·51	+2·14	4·4	—0·6	34	— 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2136	+ 7	373	—160	131	+20	23·54	+7·42	3·6	—0·9	27	— 7
5. ENGLAND, S.E.	88	13	*	*	*	*	2343	+ 47	218	—163	124	+18	19·78	+4·33	4·5	—0·6	35	— 4
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1792	— 17	329	— 96	144	+ 9	27·98	+0·27	3·7	—0·7	28	— 5
7. ENGLAND, N.W.	84	7	*	*	*	*	1969	+ 7	298	— 88	140	+17	25·17	+4·85	3·9	—0·6	29	— 5
8. ENGLAND, S.W.	88	9	*	*	*	*	2149	— 30	189	—112	150	+29	31·61	+9·85	3·9	—1·1	30	— 8
9. IRELAND, NORTH ...	75	15	*	*	*	*	1773	—118	237	—108	140	— 7	25·46	+2·55	3·6	—0·5	27	— 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2068	—112	167	— 92	165	+34	29·97	+5·68	3·6	—0·9	27	— 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2595	+140	44	— 65	147	+19	26·75	+8·73	5·0	—1·0	38	— 8

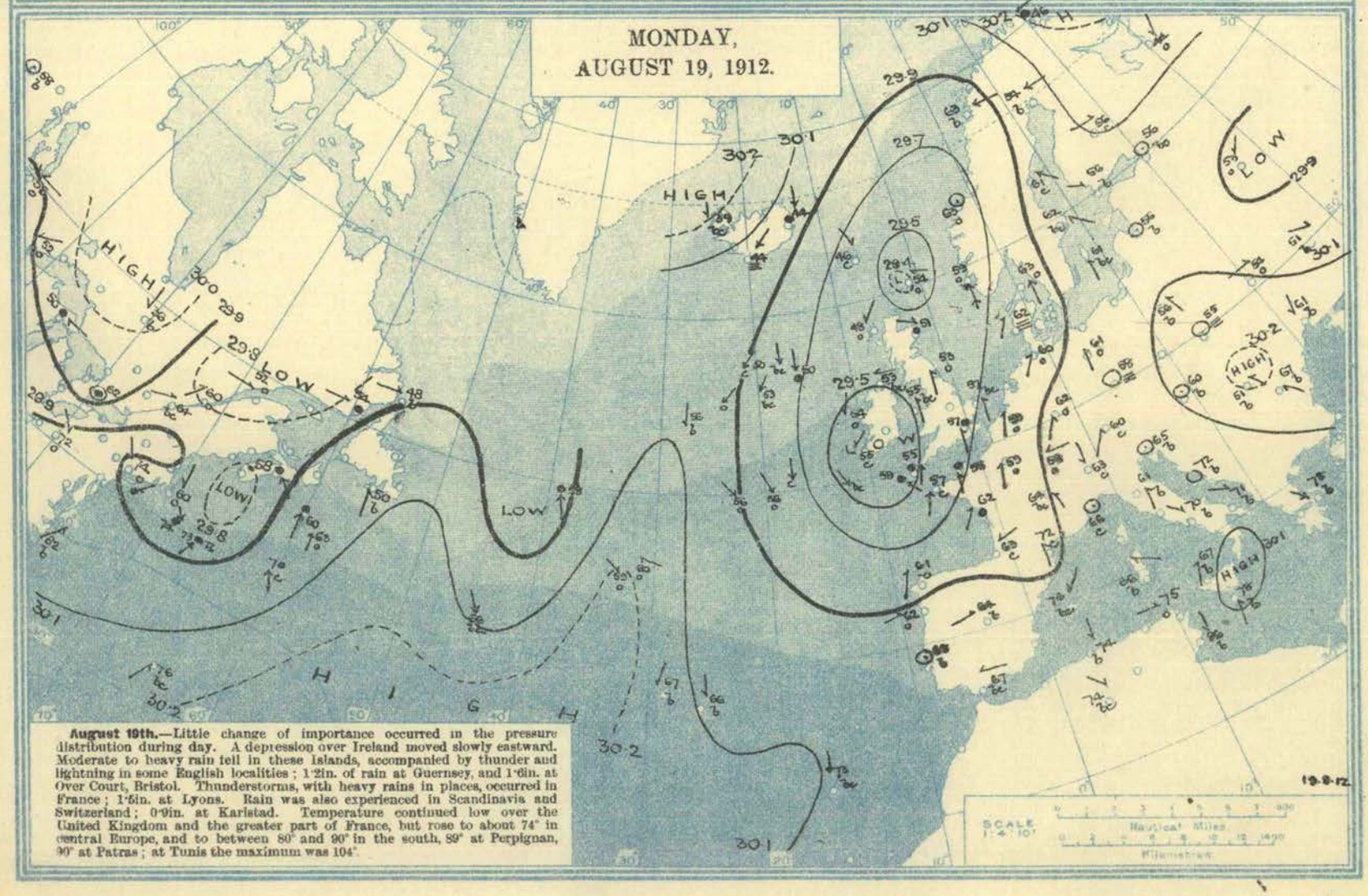
M.O., August 28, 1912.

NOTES ON TABLE IV.

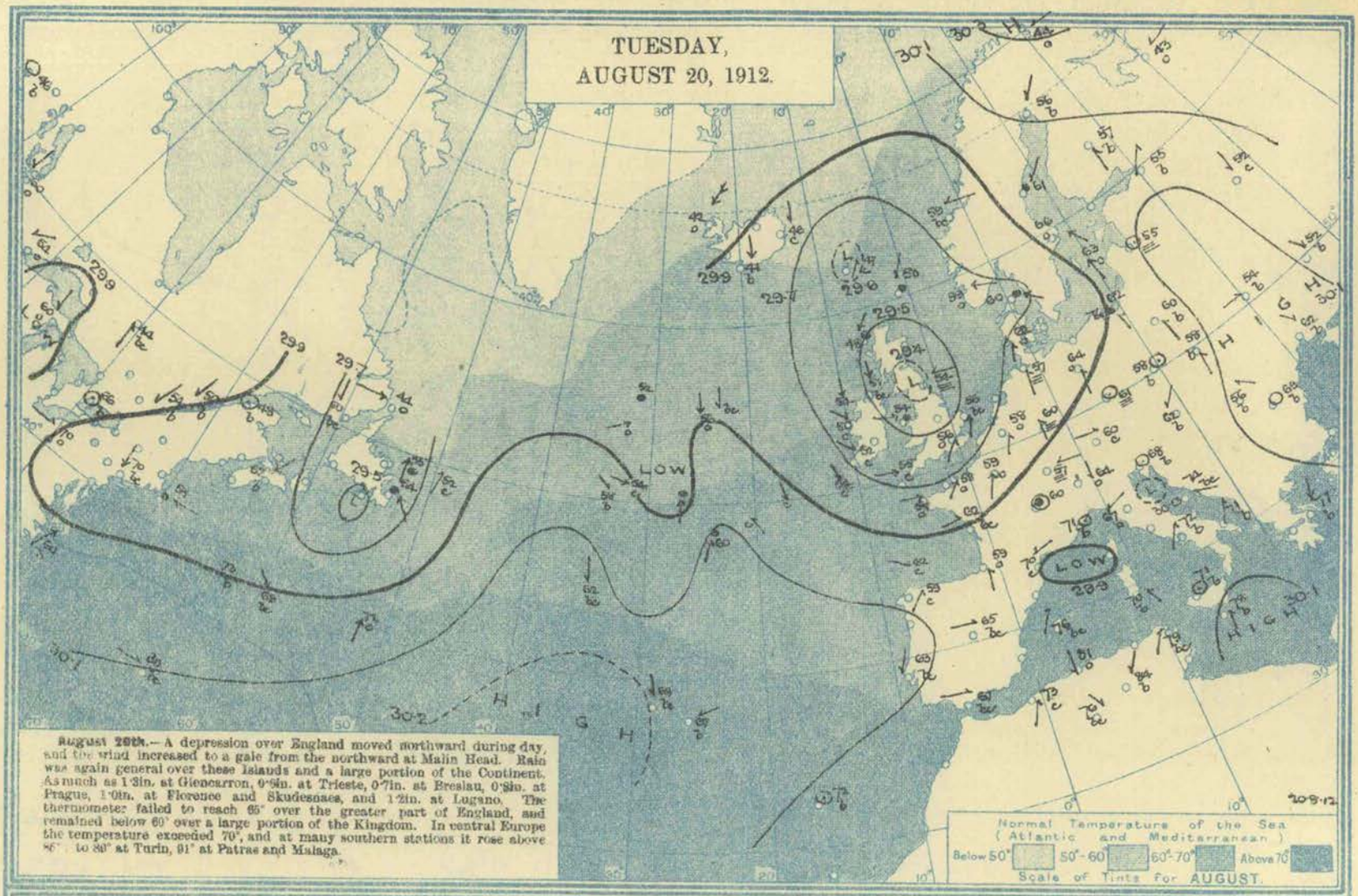
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



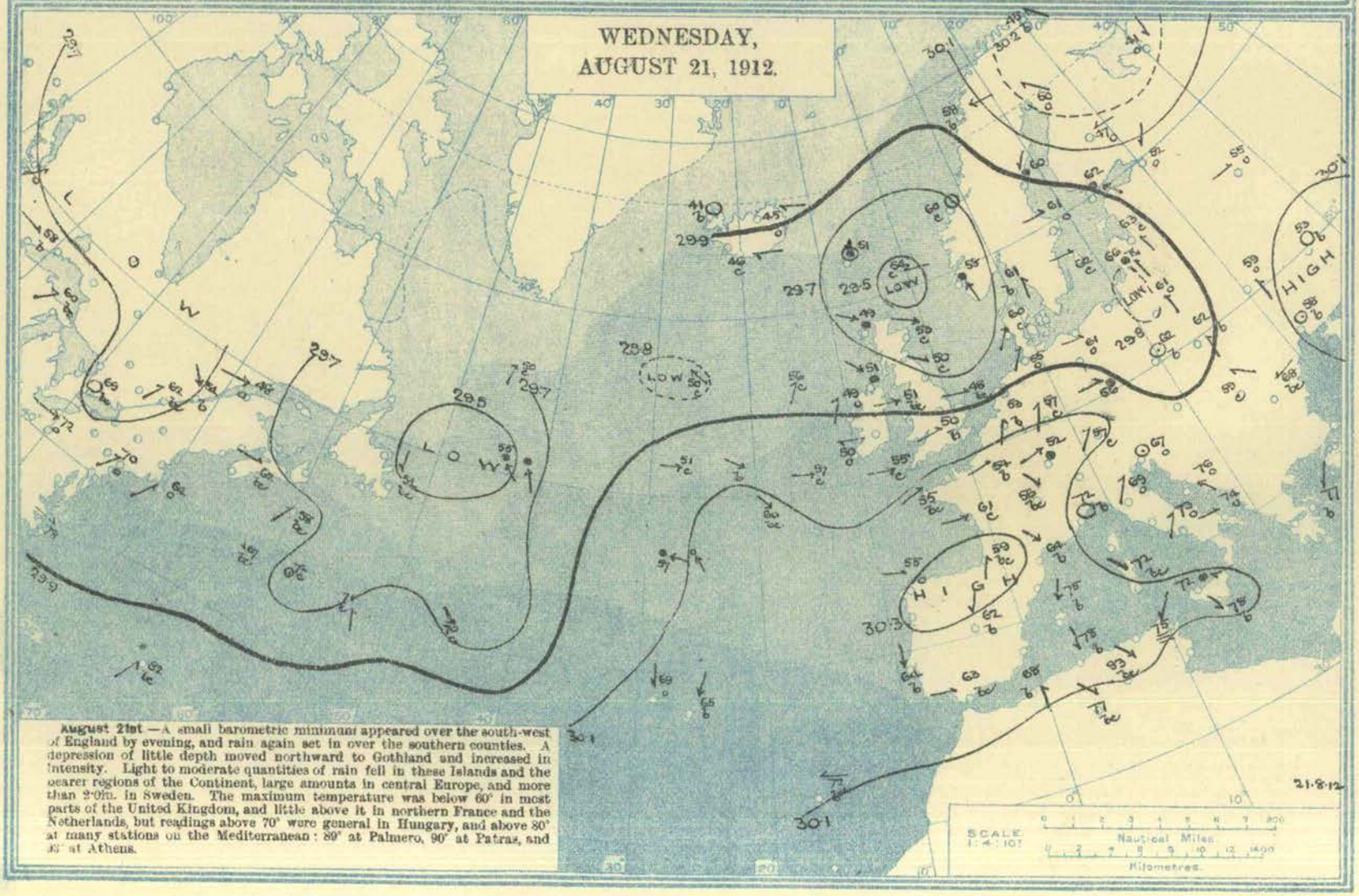
August 18th.—A depression off the north-east of Scotland increased in intensity during day, while another system extended over Ireland. Rain was experienced over the United Kingdom, 1·8in. at Lerwick, 1·2in. at Falmouth, 0·8in. at Jersey, and considerable quantities in several localities on the Continent; 0·5in. at Paris, Moscow and Skudesnaes, 0·7in. at Limoges. Over the greater part of these Islands the thermometer failed to touch 65°, and equally low maxima were reported in some parts of France. Readings above 80° were rather common in the south; 86° at Malta, 88° at Athens, and 90° at Patras.



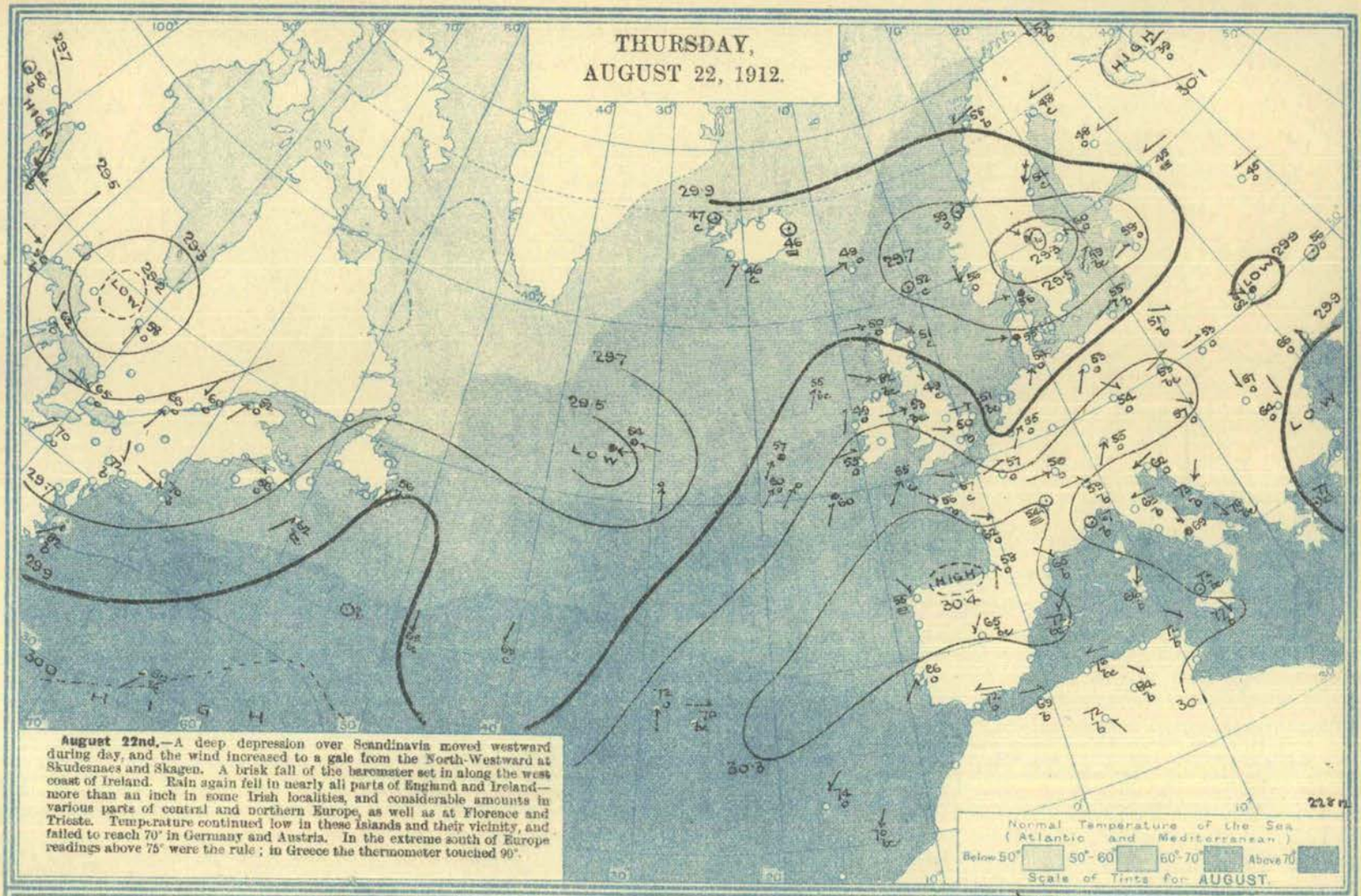
August 19th.—Little change of importance occurred in the pressure distribution during day. A depression over Ireland moved slowly eastward. Moderate to heavy rain fell in these Islands, accompanied by thunder and lightning in some English localities; 1·2in. of rain at Guernsey, and 1·6in. at Over Court, Bristol. Thunderstorms, with heavy rains in places, occurred in France; 1·5in. at Lyons. Rain was also experienced in Scandinavia and Switzerland; 0·9in. at Karlstad. Temperature continued low over the United Kingdom and the greater part of France, but rose to about 74° in central Europe, and to between 80° and 90° in the south, 89° at Perpignan, 90° at Patras; at Tunis the maximum was 104°.



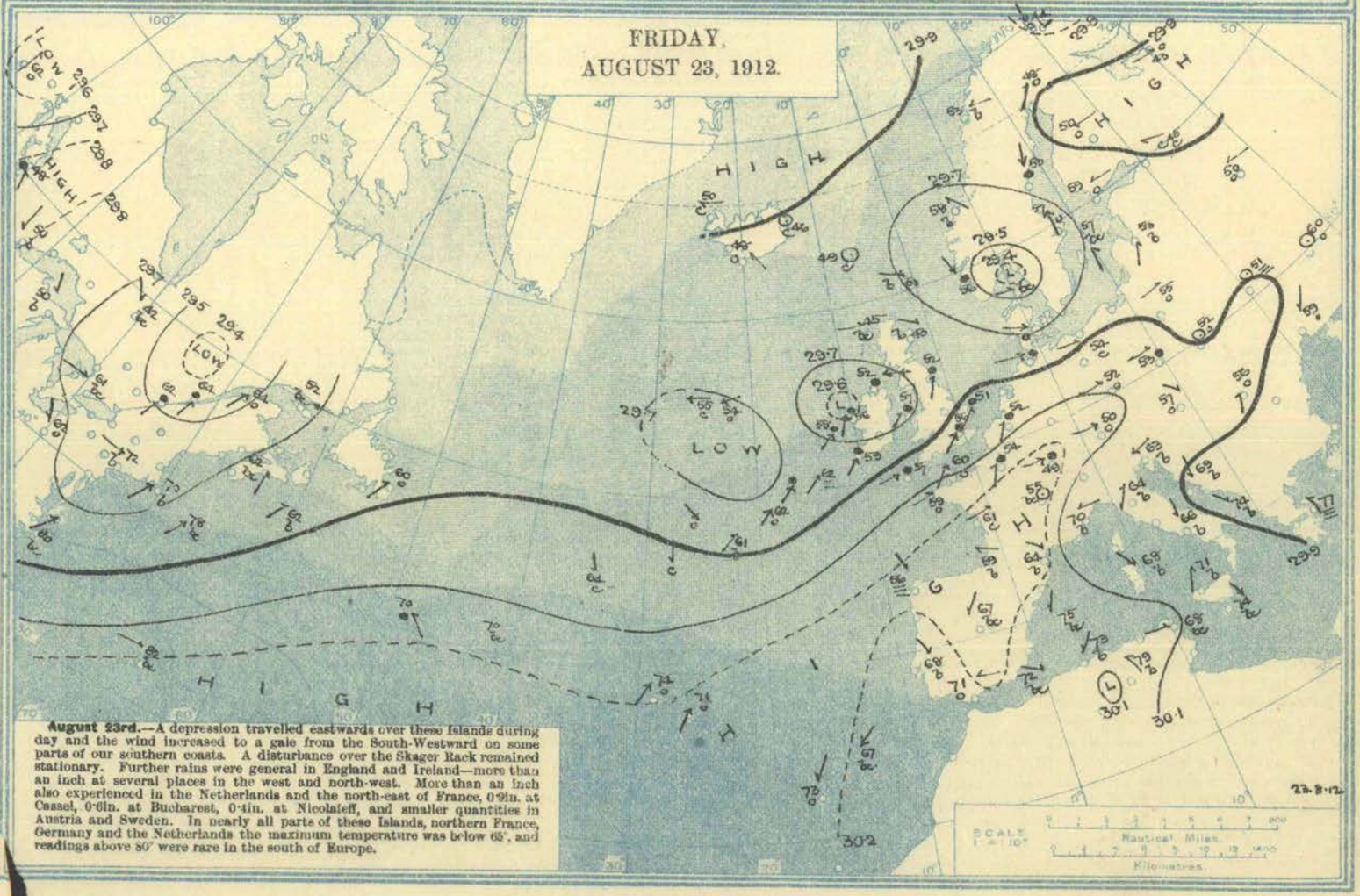
August 20th.—A depression over England moved northward during day, and the wind increased to a gale from the northward at Malin Head. Rain was again general over these Islands and a large portion of the Continent. As much as 1·3in. at Glencarron, 0·8in. at Trieste, 0·7in. at Breslau, 0·3in. at Prague, 1·0in. at Florence and Skudesnaes, and 1·2in. at Lugano. The thermometer failed to reach 65° over the greater part of England, and remained below 60° over a large portion of the Kingdom. In central Europe the temperature exceeded 70°, and at many southern stations it rose above 86°, to 89° at Turin, 91° at Patras and Malaga.



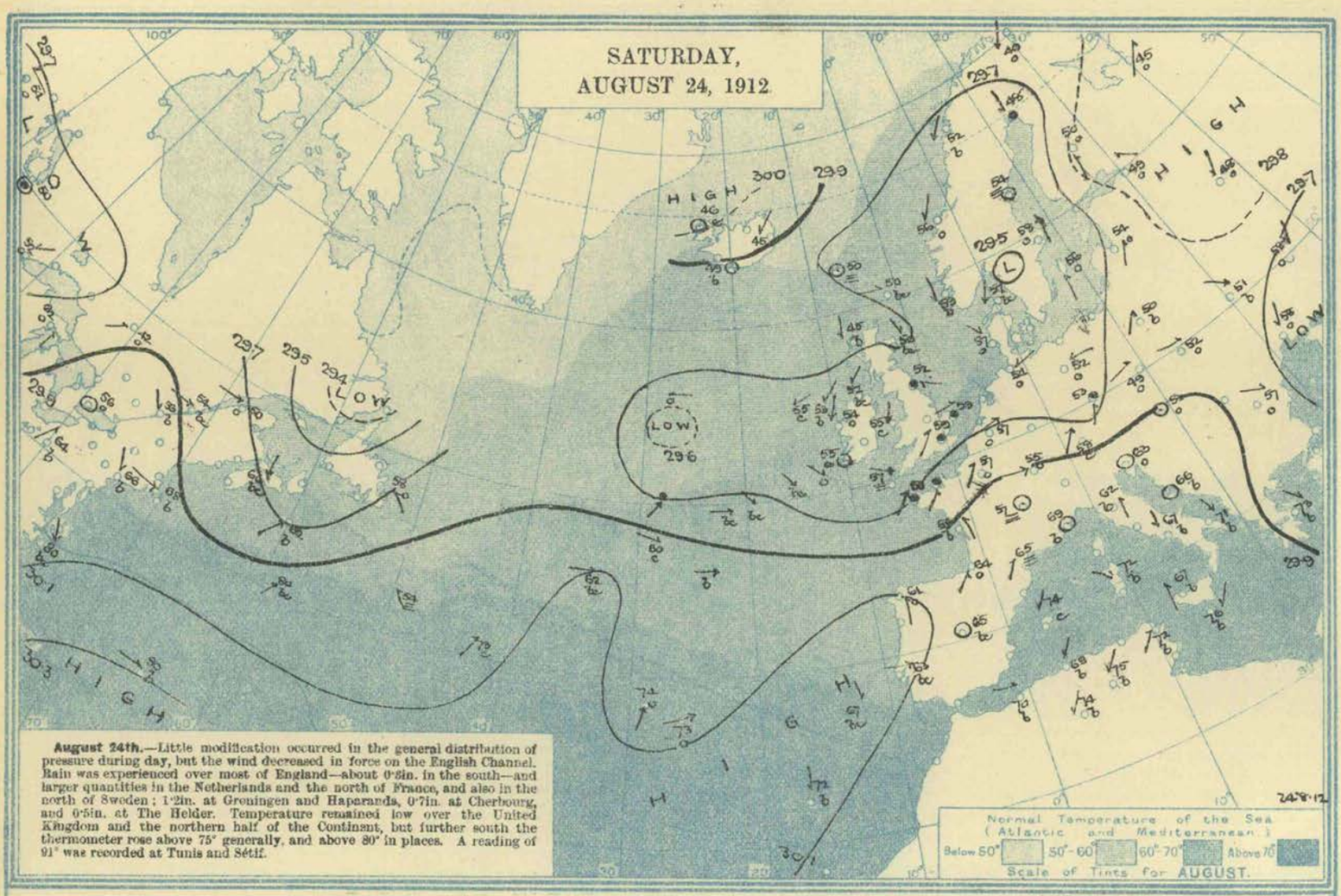
August 21st.—A small barometric minimum appeared over the south-west of England by evening, and rain again set in over the southern counties. A depression of little depth moved northward to Gothland and increased in intensity. Light to moderate quantities of rain fell in these Islands and the nearer regions of the Continent, large amounts in central Europe, and more than 2·0in. in Sweden. The maximum temperature was below 60° in most parts of the United Kingdom, and little above it in northern France and the Netherlands, but readings above 70° were general in Hungary, and above 80° at many stations on the Mediterranean: 89° at Palmero, 90° at Patras, and 86° at Athens.



August 22nd.—A deep depression over Scandinavia moved westward during day, and the wind increased to a gale from the North-Westward at Skudesnaes and Skagen. A brisk fall of the barometer set in along the west coast of Ireland. Rain again fell in nearly all parts of England and Ireland—more than an inch in some Irish localities, and considerable amounts in various parts of central and northern Europe, as well as at Florence and Trieste. Temperature continued low in these islands and their vicinity, and failed to reach 70° in Germany and Austria. In the extreme south of Europe readings above 75° were the rule; in Greece the thermometer touched 90°.

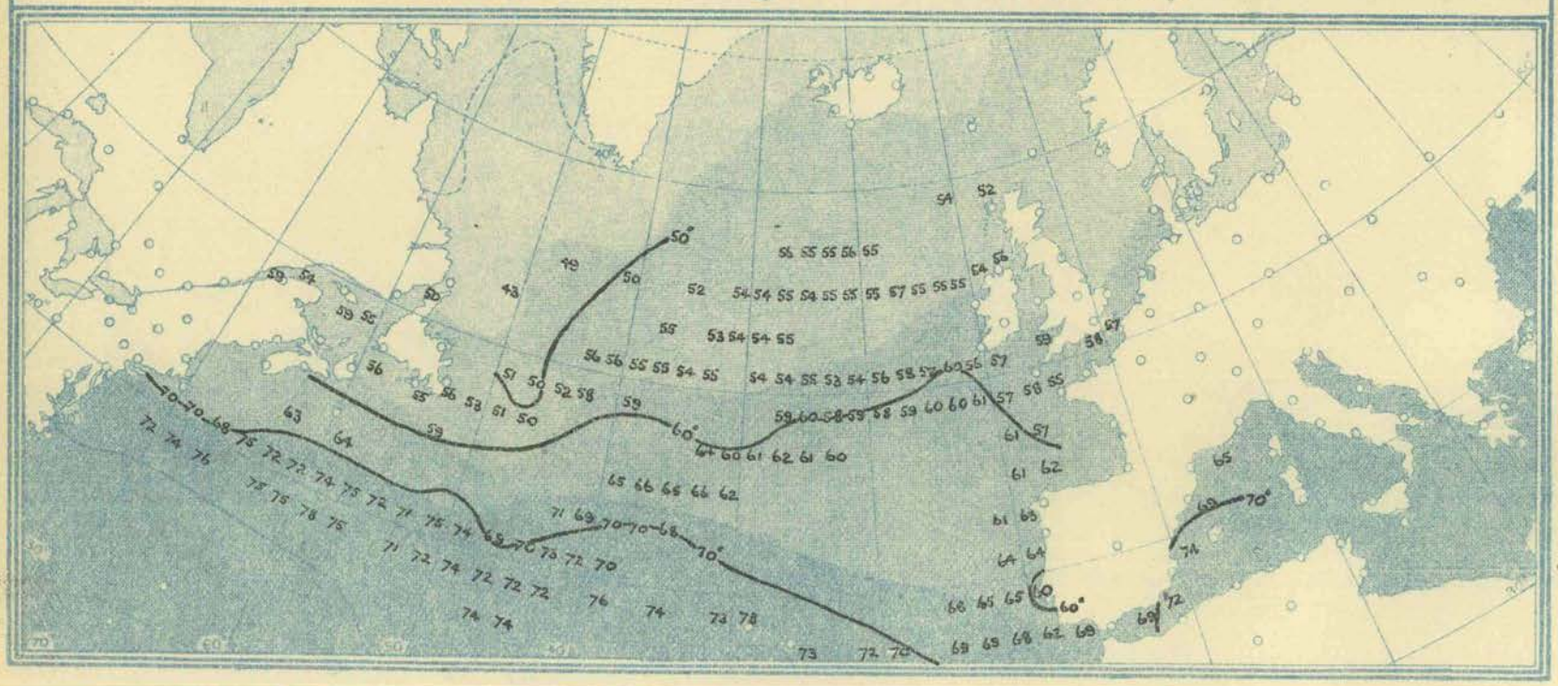


August 23rd.—A depression travelled eastwards over these Islands during day and the wind increased to a gale from the South-Westward on some parts of our southern coasts. A disturbance over the Skager Rack remained stationary. Further rains were general in England and Ireland—more than an inch at several places in the west and north-west. More than an inch also experienced in the Netherlands and the north-east of France, 0·9in. at Cassel, 0·6in. at Bucharest, 0·4in. at Nicolaieff, and smaller quantities in Austria and Sweden. In nearly all parts of these Islands, northern France, Germany and the Netherlands the maximum temperature was below 65°, and readings above 80° were rare in the south of Europe.



August 24th.—Little modification occurred in the general distribution of pressure during day, but the wind decreased in force on the English Channel. Rain was experienced over most of England—about 0·8in. in the south—and larger quantities in the Netherlands and the north of France, and also in the north of Sweden; 1·2in. at Groningen and Haparanda, 0·7in. at Cherbourg, and 0·5in. at The Helder. Temperature remained low over the United Kingdom and the northern half of the Continent, but further south the thermometer rose above 75° generally, and above 80° in places. A reading of 91° was recorded at Tunis and Sétif.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 24TH. AUGUST, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) | No. 35. | THIRTY-FIFTH WEEK, SUNDAY, AUGUST 25TH, TO SATURDAY, AUGUST 31ST, 1912. | *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The general condition was again very unsettled. Rain fell on most days, but varied greatly in quantity in the different districts. In East Anglia on Monday it was extraordinarily heavy, especially at Norwich and its immediate vicinity, where serious floods occurred. Some local thunderstorms were experienced, mostly in the east and south of England on the 30th.

Temperature continued below the normal, the deficit amounting to as much as 4½° in Scotland E. and 4° in Scotland N. In England E. it was less than 1½°. The highest of the maxima were recorded during the latter half of the week, mostly on the 29th, and ranged from 70° in England N.E. to 63° in Scotland W. The lowest of the minima, which occurred generally on the 28th, varied from 32° in Scotland E. (at Balmoral on the 25th), 34° in Scotland W., and 35° in some English districts, to 42° in Ireland S., and to 51° in the English Channel. The lowest grass readings were 25° at Birmingham, 26° at Crathes, 28° at Hampstead and 29° at Balmoral and West Linton. Both at 1 foot and 4 feet the temperature of the soil was below the normal for the time of the year.

Mean Temperature of the Sea. On most parts of the coast the water was colder than during the corresponding week of last year, and its temperature was also below the normal.

Rainfall was more than the average except in Scotland N., but in Ireland, England N.W. and Scotland E. the excess was very slight. In England E. the fall amounted to more than seven times as much as the average. On Monday considerably more than 3 in. was collected in many parts of the district, the heaviest downpour occurring at Norwich. Between 4 a.m. and 3.15 p.m. there was 6 in. of which 4·96 in. fell between 9 a.m. and 3.15 p.m. In the 29 hours ended 9 a.m. on Tuesday, the total fall amounted to no less than 7·34 in.; other gauges in the neighbourhood recording an equally exceptional amount. Falls of more than an inch were registered in some parts of Kent and Essex on the 25th, and at several places in the north-west and west on the 28th; at Cally, Gatehouse, as much as 1·65 in.

Bright Sunshine was everywhere below the normal. The greatest percentage of the possible duration was 34 in the English Channel, and the least 15 in Ireland S. In Ireland and the north-eastern and north-western counties of Great Britain the mean daily duration was less than 3 hours, but in England E. and S.E. it was 3·7 hours, and in the English Channel 4·7 hours.

Barometer and Wind. Little change occurred in the general distribution of pressure. Two high pressure systems still existed, one to the south-westward of these Islands, and the other over the Icelandic region, and depressions from the Atlantic again passed over the United Kingdom. The disturbance of Monday, when the abnormal rains occurred in East Anglia, increased greatly in intensity while its centre was over that region, and strong gales from various quarters were felt over a relatively small area. The depression subsequently decreased in intensity and travelled across the North Sea. At the end of the week an anticyclonic ridge was passing eastwards over these Islands.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 139.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Very deficient	Very deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Heavy	Moderate	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Very scanty	Scanty	Scanty	Scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

SUMMER, 13 weeks from June 2nd, 1912.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

PAST SEASONS.

SUMMER, 1911. June 4th–Sept. 2nd. 13 weeks.	Warmth ...	6 * 2	7 * 2	10 * 2	10 * 2	10 * 2	10 * 2	8 * 2	9 * 2	10 * 2	9 * 2	9 * 1	10 * 1
	Rainfall ...	5 * 6	1 * 7	2 * 8	2 * 8	1 * 7	1 * 8	2 * 4	2 * 7	2 * 6	2 * 6	4 * 8	3 * 5
	Sunshine ...	7 * 3	6 * 4	9 * 3	9 * 3	9 * 3	9 * 2	6 * 4	10 * 3	10 * 2	8 * 3	8 * 2	9 * 2
AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5

(26199—24.) Wt. 173—814. 450. 9/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*56*	*28, 29*	*40*	*31st*	*54·1*	*45·7*	*49·7*	—	*54*	*0*	•	•	52·7	•	•	•	*4*	*0·15*	—	*5·4*	—	*38*	—	*Baltasound.*
a Lerwick	54	28, 29	44	28, 29	52·7	46·9	49·6	- 2·1	53	0	•	•	•	•	•	•	4	0·68	—	4·1	+ 0·3	29	+ 2	Deerness.
a, Islands .. *a* Stornoway	57	25th	38	28th	55·0	42·9	48·6	- 4·7	46	0	•	•	•	•	•	•	6	0·57	- 0·40	4·0	- 0·1	28	- 1	Stornoway.
a Castlebay, Barra Isd.	*59*	*26th*	*46*	*31st*	*55·9*	*48·6*	*52·0*	- *3·5*	*70*	*0*	•	•	•	•	•	•	*3*	*1·22*	—	*4·1*	—	*29*	—	*Castlebay.*
a Wick	57	25th	39	28th	53·7	44·0	48·6	- 4·9	46	0	•	•	•	•	•	•	6	1·26	+ 0·63	•	•	•	•	• •
b, Mainland. *p* Strathpeffer ..	60	25th	42	25th	57·6	45·6	51·2	- 2·8	64	0	•	•	•	•	•	•	7	0·89	+ 0·30	2·1	- 1·8	15	- 13	Strathpeffer.
p Glencarron ..	61	25th	38	31st	55·0	42·6	48·4	- 4·3	45	0	•	•	•	•	•	•	4	1·02	- 0·76	•	•	•	•	• •
p Fort Augustus..	58	31st	37	31st	55·9	45·9	50·6	- 4·1	60	0	•	•	•	•	•	•	5	0·67	- 0·18	2·0	- 0·9	14	- 7	Fort Augustus.
p Fort William .. S	64	25th	38	31st	59·0	44·4	51·3	- 3·6	65	0	•	•	•	•	•	•	3	0·66	- 0·84	•	•	•	•	• •
1. SCOTLAND, E.																								
p Gordon Castle.. S	59	25, 29, 31	40	25th	57·6	44·6	50·7	- 4·4	61	0	2	26	54·6	-1·4	54·1	-1·2	—	—	—	2·3	—	16	—	Crathes S.
a Nairn	58	31st	37	25th	55·9	42·0	48·5	- 6·3	46	0	•	•	•	•	•	•	6	0·56	- 0·10	*3·3*	—	*23*	—	*Gordon Castle.*
a Aberdeen	59	25, 29, 31	37	25th	57·7	43·6	50·2	- 4·9	57	0	•	•	•	•	52·7	-1·2	6	0·63	+ 0·09	2·0	—	14	—	Nairn.
a Balmoral ..	64	25th	32	25th	57·6	40·0	48·3	- 3·4	53	6	1	29	•	•	•	•	5	0·78	+ 0·17	3·7	- 0·9	26	- 7	Aberdeen.
p Crieff	62	25th	38	26th	59·4	43·1	50·8	- 4·8	62	0	•	•	•	•	•	•	7	0·82	+ 0·06	•	•	•	•	Balmoral.
a Leith	64	29th	43	31st	58·9	48·7	53·5	- 3·4	81	0	•	•	•	•	•	•	3	0·75	- 0·13	1·4	—	10	—	Balruddery.
p West Linton .. S	61	29th	35	31st	56·3	42·3	48·9	- 4·7	48	0	1	29	•	•	•	•	3	0·71	+ 0·15	•	•	•	•	• •
p Marchmont .. S	60	28th	40	31st	56·9	45·9	51·1	- 3·1	64	0	0	36	53·1	-2·0	•	•	5	0·82	+ 0·10	1·7	- 2·8	12	-20	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	62	29, 30	41	31st	58·7	47·6	52·8	- 2·6	76	0	0	40	52·7	-1·7	53·4	-1·4	6	0·63	- 0·02	2·2	—	16	—	Cockle Park.
a Shields	66	29th	46	28th	59·4	48·1	53·4	- 2·9	80	0	•	•	•	•	•	•	7	0·82	+ 0·27	•	•	•	•	*Newcastle.*
p Durham	61	29th	40	28th	57·0	46·3	51·3	- 5·4	65	0	0	32	•	•	•	•	7	1·11	+ 0·59	1·9	- 2·6	14	-19	Durham.
a, North .. *p* Rounton	64	29th	40	28th	58·1	46·9	52·2	- 3·6	71	0	0	33	55·1	•	•	•	6	1·10	+ 0·58	•	•	•	•	Rounton.
a West Witton	*61*	*29th*	*40*	*28th*	*57·3*	*46·6*	*51·6*	—.	*67*	*0*	0	37	54·4	•	54·0	•	*6*	*1·37*	—	•	•	•	•	*West Witton.*
p Scarborough	65	29, 30	45	28th	60·1	50·3	54·9	- 2·2	90	0	•	•	•	•	57·9†	•	6	1·13	+ 0·58	1·6	—	12	—	Scarborough.
p York	67	29th	43	28th	62·0	49·9	55·6	- 2·0	95	0	•	•	56·9	-1·4	56·9	-0·3	5	1·77	+ 1·24	2·2	- 2·3	16	-17	York.
a Spurn Head	66	29th	49	28, 29	60·1	50·6	55·1	- 3·3	92	0	0	37	55·3	-2·5	56·0	-0·6	6	1·97	+ 1·55	*1·6*	—	*12*	—	*Hull.*
b, South .. *a* Lincoln	67	29th	44	28th	62·3	50·0	55·8	- 2·6	97	0	•	•	56·0	-3·0	56·0	-1·6	4	1·97	+ 1·47	•	•	•	•	Lincoln.
a Fulbeck	70	30th	41	28th	63·0	49·6	55·9	- 2·4	97	0	0	37	57·8	-2·8	56·1	-2·7	5	3·29	+ 2·79	3·3	—	24	—	Rauceby.
											•	•	•	•	•	•	—	—	—	3·8	—	28	—	Skegness.
											0	44	59·6	-1·6	59·2	-0·8	—	—	—	*2·9*	—	*21*	—	*Lowestoft.*
p Cromer	66	29, 30	49	27th	61·6	51·7	56·4	- 1·8	101	0	•	•	•	•	•	•	7	4·15	—	3·2	—	23	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	68	25th	48	28th	62·7	52·1	57·1	- 1·7	106	0	•	•	58·9	-3·0	59·0	-2·6	6	5·45	+ 4·94	2·7	—	20	—	Yarmouth.
a Norwich	67	25, 29	46	28th	63·6	51·9	57·4	- 1·3	108	0	0	37	58·3	•	•	•	7	8·25	—	*3·0*	—	*22*	—	*Norwich.*
p Geldeston	69	25th	46	28th	64·7	51·4	57·7	- 0·7	110	0	•	•	•	•	•	•	7	4·93	+ 4·44	3·2	- 2·6	23	-19	Geldeston.
p Cambridge	68	25, 29, 30	48	31st	64·9	51·6	57·9	- 1·7	111	0	0	42	59·6	-1·0	59·0	-0·9	5	2·99	+ 2·50	4·0	- 1·7	29	-12	Cambridge.
a Felixstowe	*66*	*25th*	*47*	*28th*	*62·6*	*52·7*	*57·4*	- *2·2*	*108*	*0*	•	•	•	•	•	•	*6*	*2·64*	—	*4·0*	—	*29*	—	*Felixstowe.*
a Clacton-on-Sea ..	67	25th	47	28th	62·6	51·9	56·9	- 2·8	104	0	0	43	58·7	-1·8	58·3	-1·8	5	2·92	—	4·4	—	32	—	Clacton.
b, South .. *a* Rothamsted	66	29, 30	40	28th	62·7	49·7	55·8	- 2·0	97	0	•	•	•	•	•	•	6	1·62	+ 1·06	4·3	- 1·3	31	- 9	Rothamsted.
a Shoeburyness	*66*	*25th*	*47*	*28th*	*63·7*	*52·1*	*57·6*	- *3·1*	*109*	*0*	0	42	60·3	-3·8	•	•	*5*	*1·84*	+ *1·44*	*4·4*	—	*32*	—	*Southend.*
p Tottenham	68	29th	46	28th	63·6	52·0	57·5	- 2·1	109	0	0	40	•	•	59·9	-2·0	4	1·37	—	4·1	—	30	—	Tottenham.
											0	34	55·1	-3·4	55·1	-1·9	—	—	—	*2·2*	—	*16*	—	*Huddersfield.*
4. MIDLAND COUNTIES.																								
a Harrogate	63	29th	40	28th	58·0	47·1	52·2	- 3·7	71	0	0	34	54·5	-1·1	54·8	-0·7	5	2·13	+ 1·55	2·8	—	20	—	Harrogate.
a Bawtry	67	29th	42	28th	61·3	49·6	55·1	- 2·5	92	0	0	37	56·8	•	56·0	•	4	1·65	+ 1·16	2·1	- 2·3	15	-17	Worksop.
p Buxton	*62*	*25th*	*38*	*28th*	*58·4*	*47·3*	*52·5*	- *2·4*	*74*	*0*	0	33	55·3	-1·8	53·1	-2·2	*5*	*1·66*	+ *0·69*	*2·6*	—	*19*	—	*Buxton.*
a East .. *a* Nottingham	66	29th	45	28, 29	61·6	49·6	55·2	- 2·6	92	0	0	35	57·1	-0·8	57·3	-1·4	5	1·70	+ 1·18	2·4	—	18	—	Nottingham.
p Birmingham, Edgbsn.	64	29th	42	28th	60·7	48·9	54·5	- 3·5	88	0	1	25	53·5	-1·8	53·0	-1·2	6	1·87	+ 1·30	2·9	—	21	—	Birmingham.
a Raunds	69	29th	44	31st	64·7	51·0	57·4	- 0·7	108	0	0	42	59·0	—	57·8	•	6	3·32	—	•	•	•	•	Raunds.
a Oxford	67	29th	42	28th	62·7	49·7	55·8	- 3·0	97	0	0	•	•	•	•	•	5	1·25	+ 0·77	3·9	- 1·6	29	-12	Oxford.
											0	36	56·0	-1·7	55·1	-0·8	—	—	—	2·9	—	21	—	Sheffield.
a Cheadle	65	25, 26	35	27th	62·0	44·9	52·9	- 3·0	76	0	1	30	•	•	•	•	5	1·62	+ 0·90	•	•	•	•	Cheadle.
p Shrewsbury	66	25th	36	28th	61·7	47·6	54·2	- 3·7	85	0	0	35	•	•	•	•	5	1·22	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	65	29, 30	38	28th	61·7	47·6	54·2	- 3·9	85	0	0	34	•	•	•	•	5	2·15	+ 1·62	•	•	•	•	Hereford.
a Cirencester	65	25, 29	37	28th	61·3	47·0	53·7	- 3·3	82	0	0	38	56·7	•	56·0	•	5	2·18	+ 1·54	4·3	- 1·1	31	- 8	Cirencester.
a Bath	68	29th	38	28th	64·1	48·6	55·9	- 2·8	97	0	•	•	60·0	-2·0	59·5	-1·8	6	1·46	+ 0·86	3·6	—	27	—	Bath.
											0	39	59·7	-0·7	59·3	-1·5	—	—	—	•	•	•	•	Canterbury.
5. ENGLAND, S.E.																								
p Kew	67	29, 30	45	28th	63·4	51·6	57·2	- 2·0	106	0	0	33	59·1	-1·3	57·8	-1·1	5	1·42	+ 0·90	3·9	- 1·7	29	-13	Kew.
a Marlborough ..	66	29th	35	28th	62·4	46·9	54·2	- 2·5	85	0	0	32	57·2	•	56·1	•	5	1·12	+ 0·53	2·9	- 2·4	21	-18	Marlborough
a Margate	66	25th	51	27th	63·7	53·3	58·2	- 2·2	113	0	•	•	59·0	-1·7	58·0	-1·9	5	1·81	+ 1·36	3·1	- 2·6	23	-19	Margate.
a Wisley, Surrey ..	67	29th	42	28th	63·6	50·1	56·5	- 3·5	102	0	0	38	59·4	-1·2	58·6	-1·6	6	1·13	—	4·0	—	29	—	Wisley
a Swarraton	66	29th	36	28th	63·0	48·6	55·4	- 2·4	94	0	0	39	60·6	-1·5	59·6	-1·4	6	2·01	+ 1·41	3·5	—	26	—	Worthing.
a Tunbridge Wells ..	64	30, 31	42	28th	62·7	49·3	55·6	- 3·1	95	0	0	37	59·3	-2·2	•	•	6	2·38	+ 1·85	4·5	- 1·4	33	-11	Tunbridge Wells.
a Dungeness	66	31st	43	28th	63·9	51·0	57·1	- 3·0	106	0	•	•	•	•	•	•	4	1·55	+ 1·09	4·0	—	29	—	Littlestone.
p Hastings..	64	31st	48	28, 31	63·0	51·9	57·1	- 2·9	106	0	0	43	60·6	•	60·2	•	6	1·43	+ 0·88	*3·9*	- *2·5*	*29*	- *18*	*Hastings.*
p Southampton	66	29th	43	28th	63·5	51·6	57·2	- 3·5	106	0	0	37	•	•	•	•	6	1·51	+ 0·94	3·5	- 2·7	26	- 20	Southampton.
a Ventnor	66	30th	49	28th	63·4	53·1	57·9	- 3·3	111	0	•	•	•	•	•	•	5	1·48	+ 0·95	3·5	- 2·9	26	- 22	Ventnor.
											0	38	59·8	-2·5	59·1	-2·6	—	—	—	*3·8*	—	*28*	—	*Portsmouth.*
											•	•	60·4	•	59·8	•	—	—	—	4·5	- 1·7	33	-13	Eastbourne.
											•	•	59·2	•	59·1	•	—	—	—	*3·5*	—	*26*	—	*Bournemouth.*
LONDON.											0	43	•	•	60·3	•	—	—	—	*3·6*	- *2·9*	*27*	- *21*	*Brighton.*
a Westminster	*68*	*30th*	*45*	*28th*	*64·3*	*52·1*	*57·8*	- *2·2*	*111*	*0*	0	41	•	•	•	•	*6*	*1·35*	+ *0·85*	*3·7*	- *1·3*	*27*	- *9*	*Westminster.*
a Greenwich	*70*	*29, 30*	*42*	*28th*	*66·1*	*51·0*	*58·1*	- *2·3*	*113*	*0*	0	33	•	•	•	•	*5*	*1·47*	+ *1·01*	*3·7*	- *2·4*	*27*	- *18*	*Greenwich.*
a Hampstead	*69*	*25th*	*43*	*28th*	*62·9*	*50·0*	*56·1*	—	*99*	*0*	1	28	•	•	•	•	*5*	*1·53*	—	*4·4*	—	*32*	—	*Hampstead.*
a Camden Square ..	*70*	*30th*	*43*	*28th*	*66·1*	*50·7*	*57·9*	—	*111*	*0*	0	42	•	•	•	•	*5*	*1·48*	—	*4·1*	—	*30*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	63	26th	35	27th	58·9	44·0	51·0	- 4·9	63	0	•	•	•	•	•	•	4	1·64	+ 0·54	•	•	•	•	• •
p Glasgow	60	29, 30	42	27th	58·9	46·1	52·1	- 2·8	71	0	0	32	•	•	•	•	4	1·12	+ 0·26	2·0	- 1·9	14	-14	Glasgow.
p Rothesay	63	25, 27	40	27, 28	61·6	45·1	52·9	- 2·8	76	0	•	•	•	•	54·7	-1·0	4	2·11	+ 1·03	•	•	•	•	• •
a Kilmarnock	62	28th	34	27, 28	60·3	43·0	51·1	- 4·2	64	0	•	•	•	•	•	•	4	0·84	—	*2·3*	—	*16*	—	*Kilmarnock.*
a Colmonell	62	29th	34	28th	59·9	44·7	51·8	- 4·6	69	0	0	32	•	•	•	•	3	1·10	+ 0·14	•	•	•	•	• •
p Dumfries	60	29th	38	28th	57·4	46·0	51·4	- 5·7	66	0	0	34	55·1	•	56·7	•	4	0·87	+ 0·04	*1·5*	—	*11*	—	*Dumfries.*
p Cally, Gatehouse S	62	31st	35	28th	59·3	44·9	51·7	- 3·0	68	0	•	•	•	•	•	•	3	2·25	+ 1·22	•	•	•	•	• •
b I. OF MAN.																								
p Douglas	60	29th	42	28th	57·4	48·3	54·6	- 1·1	88	0	0	38	•	•	•	•	4	1·25	+ 0·32	3·2	- 2·1	23	-15	Douglas.
											0	31	54·5	-1·6	54·5	-1·2	—	—	—	*2·1*	—	*15*	—	*Burnley.*
											0	38	•	•	•	•	—	—	—	3·9	—	29	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	63	29th	42	31st	58·4	46·7	52·2	- 3·7	71	0	0	34	55·6	•	54·9	•	4	1·06	+ 0·09	2·0	—	14	—	Aspatria.
p Newton Rigg	61	29th	37	28th	57·0	44·6	50·4	- 4·4	59	0	1	30	55·3	-2·0	54·5	-1·6	5	1·50	+ 0·75	2·4	- 2·2	17	-16	Newton Rigg.
p Stonyhurst	63	29th	42	28th	58·1	48·6	53·1	- 2·9	78	0	0	35	•	•	•	•	5	1·30	+ 0·22	2·2	- 2·5	16	-18	Stonyhurst.
p Blackpool											•	•	•	•	•	•	—	—	—	•	•	•	•	Blackpool.
p Manchester (Whit. Pk.)	*65*	*29th*	*45*	*28, 31*	*61·1*	*50·1*	*55·3*	—	*93*	*0*	0	33	•	•	•	•	4	0·71	—	*1·5*	—	*11*	—	*Whit. Park.*
a Liverpool (Bidston) ..	64	29th	47	28th	59·4	50·9	54·9	- 2·2	90	0	•	•	•	•	•	•	5	0·70	+ 0·04	*3·8*	—	*28*	—	*Liverpool.*
a Hawarden Bridge ..	65	29th	40	28th	60·7	49·3	54·7	- 3·8	89	0	0	33	57·1	-3·2	58·2	-2·0	4	0·70	+ 0·10	*4·0*	- *1·1*	*29*	- *8*	*Southport.*
											0	41	56·6	-1·8	57·8	-1·4	—	—	—	*2·4*	—	*18*	—	*Manchester City).*
b, NORTH WALES.																								
p Llandudno	63	25, 29, 30	43	28th	60·6	51·4	55·7	- 2·9	96	0	•	•	•	•	•	•	4	0·57	- 0·06	3·2	- 1·8	23	-13	Llandudno.
a Holyhead	64	25th	46	28th	60·3	51·6	55·7	- 2·1	96	0	•	•	•	•	•	•	5	0·58	- 0·11	2·9	—	21	—	Aberdovey.
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·0	—	22	—	Aberystwyth.
a Llangammarch Wells	62	29th	35	28th	59·0	44·9	51·5	− 4·7	67	0	0	31	55·4	−2·3	54·3	−1·7	5	1·93	—	2·8	—	20	—	Llangammarch
a Pembroke	61	27, 30	50	28th	59·7	53·1	56·2	− 1·8	99	0	•	•	•	•	•	•	5	1·29	+ 0·61	2·2	− 3·6	16	−26	Pembroke.[Wells
p Cardiff	64	29th	43	28th	61·3	50·1	55·4	− 3·4	94	0	0	36	58·2	−1·8	57·1	−2·4	5	2·46	+ 1·53	*2·9*	—	*21*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	67	29th	45	28th	61·6	51·7	56·4	− 3·2	101	0	0	40	•	•	•	•	4	1·88	+ 1·14	*3·5*	—	*26*	—	*Clifton.*
a Shaftesbury	68	30th	44	28th	62·6	48·7	55·2	− 2·7	92	0	•	•	57·8	•	57·2	•	5	0·90	+ 0·23	•	•	•	•	Shaftesbury.
a Arlington	63	29th	41	28th	60·1	47·6	53·5	− 3·5	81	0	•	•	58·7	•	•	•	5	1·75	+ 0·63	4·2	− 2·0	31	−15	Newquay.
a Cullompton	67	29, 30	38	28th	64·4	49·4	56·5	− 1·9	102	0	0	36	58·9	•	•	•	7	1·09	+ 0·44	2·7	− 2·9	20	−22	Cullompton.
a Portland	64	28th	50	28th	61·3	54·7	57·8	− 2·4	111	0	•	•	•	•	•	•	6	0·55	—	*3·5*	—	*26*	—	*Weymouth.*
p Plymouth	64	30th	44	28th	61·5	52·1	56·5	− 3·3	102	0	0	36	59·1	−2·8	•	•	6	1·31	+ 0·67	3·1	− 2·9	23	−21	Plymouth.
p Falmouth	62	27th	49	28th	60·9	52·7	56·6	− 2·4	102	0	•	•	•	•	•	•	6	0·90	+ 0·15	4·0	− 2·4	29	−18	Falmouth.
9. IRELAND. N.																								
a Malin Head	58	27, 31	44	28, 29	56·7	47·9	52·0	− 4·0	70	0	•	•	•	•	•	•	5	0·80	+ 0·03	•	•	•	•	• •
a, West .. *a* Blacksod Point ..	64	25th	46	25th	59·3	49·4	54·1	− 2·6	85	0	•	•	•	•	•	•	5	0·97	− 0·08	•	•	•	•	• •
p Markree Castle ..	65	25, 29	39	28th	60·7	45·3	52·5	− 2·9	74	0	0	34	57·1	•	55·2	•	4	0·95	− 0·01	3·0	− 0·9	22	− 7	Markree Castle.
a Birr Castle	65	25th	42	26th	60·1	47·7	53·5	− 2·9	81	0	•	•	•	•	•	•	6	0·89	+ 0·11	*1·7*	− *2·8*	*12*	−*20*	*Birr Castle.*
p Armagh	63	29th	37	28th	59·7	45·7	52·3	− 3·5	72	0	0	33	57·3	−1·4	56·0	−1·8	3	1·30	+ 0·52	2·4	− 1·7	17	−12	Armagh.
b, East .. *a* Donaghadee	63	29th	44	28th	58·9	49·3	53·8	− 2·7	83	0	•	•	•	•	•	•	4	1·20	+ 0·45	•	•	•	•	• •
											0	38	56·9	−2·1	56·0	−2·1	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											0	36	•	•	•	•	—	—	—	1·7	− 3·3	12	−25	Phœnix Park.
p Dublin, City	63	30th	45	27th	59·9	49·6	54·4	− 3·9	87	0	0	43	•	•	•	•	4	1·08	+ 0·38	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny	64	30th	42	31st	61·6	47·4	54·1	− 2·7	85	0	•	•	•	•	•	•	6	0·82	+ 0·08	•	•	•	•	• •
a Waterford	62	25, 26, 29	45	29, 31	60·4	48·7	54·2	− 3·5	85	0	•	•	•	•	•	•	5	0·93	+ 0·10	•	•	•	•	• •
a Birr Castle	65	25th	42	26th	60·1	47·7	53·5	− 2·9	81	0	•	•	•	•	•	•	6	0·89	+ 0·11	1·7	− 2·8	12	−20	Birr Castle.
a Foynes	65	25th	49	25, 28, 31	61·0	50·0	55·2	− 2·2	92	0	•	•	•	•	•	•	6	0·63	− 0·20	•	•	•	•	• •
a Cahir	63	29th	45	31st	61·1	48·7	54·5	− 2·6	88	0	•	•	•	•	•	•	6	1·36	—	•	•	•	•	• •
b, West .. *a* Killarney	66	27th	47	25th	62·4	50·7	56·2	− 1·0	99	0	•	•	•	•	•	•	6	0·69	− 0·33	•	•	•	•	• •
a Valencia	61	27, 29	49	25, 27	59·9	51·0	55·2	− 2·5	92	0	•	•	•	•	•	•	7	1·18	+ 0·07	2·4	− 2·3	18	−17	Valencia.
a Roche's Point ..	62	26, 30	50	31st	60·4	52·0	56·0	− 2·1	98	0	•	•	•	•	•	•	6	1·18	+ 0·32	2·4	—	18	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	62	31st	52	28th	61·0	53·3	56·9	− 3·2	104	0	•	•	•	•	•	•	6	0·67	+ 0·07	5·6	− 1·2	41	− 9	Scilly.
a Jersey, St. Aubins ..	64	28, 29, 30	54	27, 28	62·9	55·6	59·0	− 3·0	119	0	•	•	•	•	•	•	6	1·21	+ 0·61	4·0	− 3·2	29	−24	St. Heliers.
a Guernsey (Villa Carey)	65	30th	51	28th	62·6	54·6	58·4	− 2·8	115	0	0	47	60·9	−2·3	60·3	−1·8	6	0·99	+ 0·34	4·4	− 2·8	32	−20	Guernsey.*

Additional Sunshine Means:—*Bognor, 3·7 hrs. 27 °/₀; Ramsgate, 4·3 hrs. 32 °/₀; Rhyl, 3·8 hrs. 28 °/₀; Salcombe, 4·1 hrs. 30 °/₀; Tenby, 2·0 hrs. (−3·8) 15 °/₀ (− 28 °/₀); Torquay, 3·6 hrs. (−2·6) 27 °/₀ (−19 °/₀)*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, August 31st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	53	52	52·4	−0·3	SCOTLAND, W. ..	Lamlash	56	49	53·2	−2·4
	Kirkwall	55	50	53·2	−1·3		Ballantrae	59	53	56·4	−0·1
	Wick	55	51	52·3	−1·0	ENGLAND, N.W. ..	Port Erin	58	56	56·4	−0·4
SCOTLAND, E. ..	Cromarty	56	52	54·4	−1·2		Newquay	59	59	59·0	−2·1
	Pennan Bay	54	53	53·7	−1·2	ENGLAND, S.W. ..	Scilly	57	56	56·5	—
	Aberdeen, Cove Bay	55	54	54·4	+0·2		Plymouth‡	59	57	57·8	−2·1
ENGLAND, N.E. ..	Burnmouth, Berwick	53	51	52·0	−1·9		Salcombe	59	55	57·0	−2·7
	Scarborough	56	55	55·8	−0·6	IRELAND, N.W. ..	Sheephaven	57	54	55·4	−3·6
ENGLAND, E. ..	Shipwash Lightship	61	59	60·0	−2·4		Teelin	58	55	56·8	−2·3
	Margate‡	61	59	60·1	−2·9	IRELAND, S.W. ..	Cleggan	57	54	55·8	−1·3
ENGLAND, S.E. ..	Eastbourne‡	60	60	60·0	−3·2		Seafield	65	56	58·4	−1·2
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-FIFTH WEEK—August 25th to August 31st, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	64	37	55·6	44·6	49·8	— 3·9	55	— 27	0	0	5	0	0·82	—0·29	3·1	—0·5	21	— 4
Eastern.																		
1. SCOTLAND, EAST ...	64	32	57·5	43·8	50·3	— 4·5	58	— 32	0	0	5	0	0·75	+0·04	2·2	—2·3	16	—16
2. ENGLAND, N.E.	70	40	60·1	48·8	54·1	— 2·6	85	— 18	0	0	6	+ 2	1·53	+0·89	2·5	—2·2	18	—16
3. ENGLAND, EAST ...	69	40	63·3	51·5	57·1	— 1·4	106	— 9	0	0	6	+ 2	3·96	+3·42	3·7	—1·8	27	—13
4. MIDLAND COUNTIES ...	69	35	61·8	48·3	54·6	— 2·8	88	— 19	0	0	5	+ 1	1·87	+1·23	3·1	—1·7	23	—12
5. ENGLAND, S.E.	67	35	63·3	50·7	56·6	— 3·0	102	— 21	0	0	5	+ 1	1·58	+0·92	3·7	—2·0	28	—15
Western.																		
6. SCOTLAND, WEST ...	63	34	59·2	45·3	52·1	— 3·4	71	— 23	0	0	4	— 1	1·40	+0·26	2·6	—1·9	19	—14
7. ENGLAND, N.W.	65	37	59·2	49·0	53·8	— 3·2	83	— 22	0	0	5	0	0·92	+0·03	2·8	—1·7	20	—12
8. ENGLAND, S.W.	68	35	61·2	50·5	55·6	— 2·5	95	— 18	0	0	5	+ 1	1·41	+0·52	3·1	—2·3	23	—17
9. IRELAND, NORTH ...	65	37	59·2	47·6	53·0	— 2·6	77	— 19	0	0	5	0	1·02	+0·07	2·7	—2·2	19	— 9
10. IRELAND, SOUTH ...	66	42	60·8	49·7	54·9	— 2·2	90	— 16	0	0	6	+ 2	0·97	+0·08	2·1	—2·5	15	—18
11. ENGLISH CHANNEL ...	65	51	62·2	54·5	58·0	— 2·7	112	— 19	0	0	6	+ 1	0·96	+0·30	4·7	—1·9	34	—14

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 13 Weeks, June 2nd to August 31st, 1912.

0. SCOTLAND, NORTH ...	74	35	*	*	*	*	998	—108	0	— 2	56	0	10·43	—0·14	3·2	—1·1	19	— 7
Eastern.																		
1. SCOTLAND, EAST ...	87	31	*	*	*	*	1063	—176	0	— 1	57	+ 8	10·18	+1·87	2·6	—2·7	16	—17
2. ENGLAND, N.E.	86	35	*	*	*	*	1284	—114	0	0	65	+22	12·86	+5·88	3·4	—2·5	21	—16
3. ENGLAND, EAST ...	91	38	*	*	*	*	1553	— 16	0	0	57	+16	12·25	+5·66	5·2	—1·2	33	— 8
4. MIDLAND COUNTIES ...	88	35	*	*	*	*	1372	—145	0	0	60	+19	13·43	+6·38	3·8	—2·0	25	—13
5. ENGLAND, S.E.	88	34	*	*	*	*	1524	—128	0	0	55	+16	10·58	+4·08	5·2	—1·5	34	—10
Western.																		
6. SCOTLAND, WEST ...	83	34	*	*	*	*	1213	— 98	0	0	58	+ 7	12·37	+1·34	4·0	—1·6	25	—10
7. ENGLAND, N.W.	84	34	*	*	*	*	1314	—129	0	0	64	+17	13·83	+4·91	4·0	—1·8	25	—11
8. ENGLAND, S.W.	88	30	*	*	*	*	1369	—158	0	0	65	+20	16·74	+8·17	4·2	—2·2	27	—14
9. IRELAND, NORTH ...	75	33	*	*	*	*	1105	—222	0	0	62	+ 5	13·27	+3·37	3·9	—0·8	24	— 5
10 IRELAND, SOUTH ...	79	33	*	*	*	*	1237	—230	0	0	70	+21	15·04	+5·38	4·1	—1·2	26	— 8
11. ENGLISH CHANNEL ...	82	45	*	*	*	*	1510	—157	0	0	65	+19	14·21	+7·45	5·6	—2·2	37	— 5

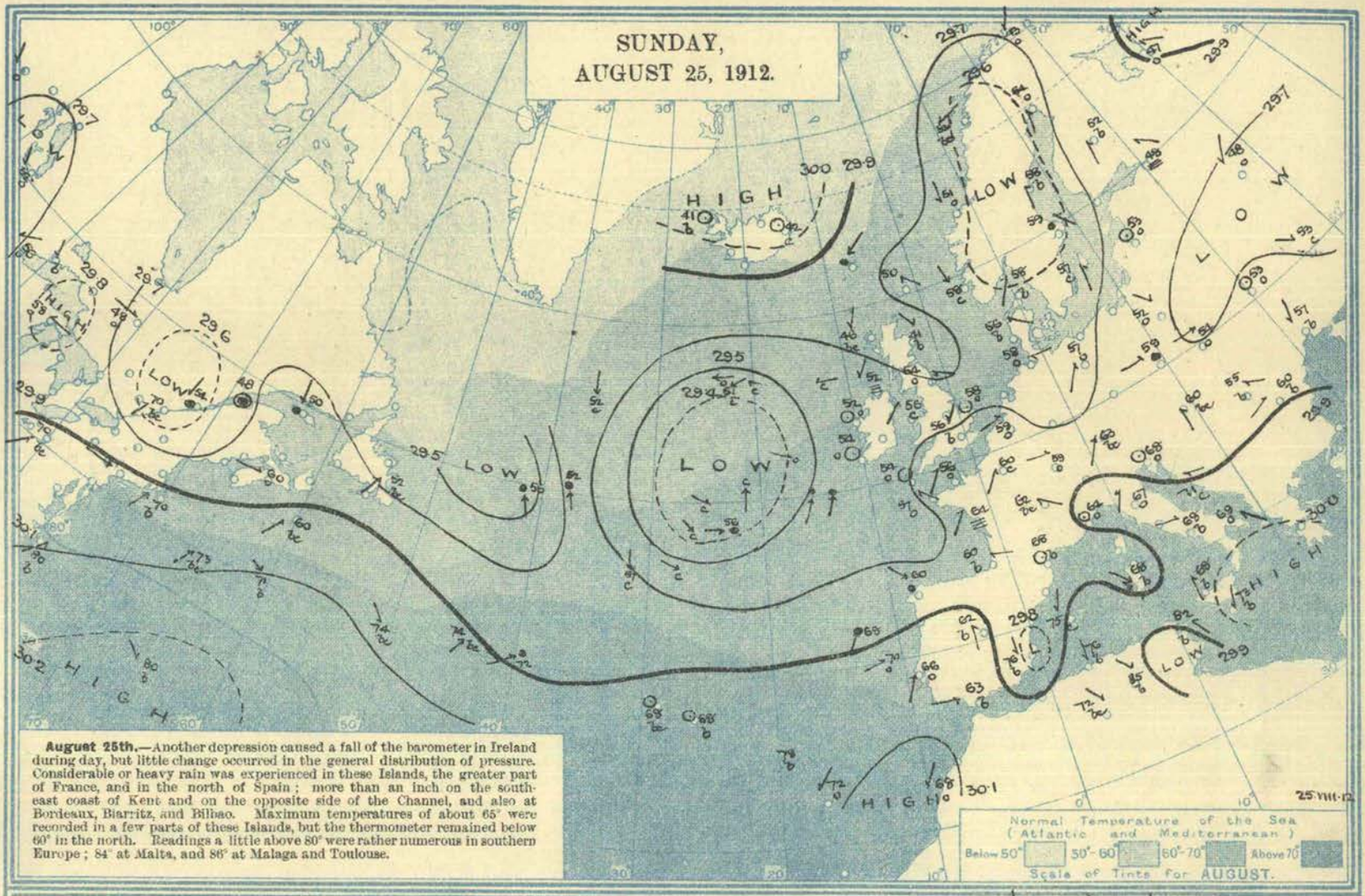
THE YEAR.—Aggregates, &c., for the Period of 35 Weeks, December 31st, 1911, to August 31st, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1486	— 68	427	—130	160	0	30·65	— 0·76	3·3	—0·3	24	— 3
Eastern.																		
1. SCOTLAND, EAST ...	87	—5	*	*	*	*	1669	—101	519	—101	147	+14	20·74	+ 1·17	3·2	—1·1	24	— 8
2. ENGLAND, N.E.	86	10	*	*	*	*	1991	+ 41	373	—102	144	+24	22·52	+ 7·06	3·5	—1·1	26	— 9
3. ENGLAND, EAST ...	91	14	*	*	*	*	2434	+174	274	—247	134	+18	20·47	+ 5·56	4·4	—0·6	33	— 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2224	— 12	373	—160	136	+21	25·41	+ 8·65	3·6	—0·9	27	— 7
5. ENGLAND, S.E.	88	13	*	*	*	*	2445	+ 26	218	—163	129	+19	21·36	+ 5·25	4·5	—0·6	35	— 4
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1863	— 40	329	— 96	148	+ 8	29·38	+ 0·53	3·7	—0·7	28	— 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2052	— 15	298	— 88	145	+17	26·09	+ 4·88	3·8	—0·7	29	— 5
8. ENGLAND, S.W.	88	9	*	*	*	*	2244	— 48	189	—112	155	+30	33·02	+10·37	3·9	—1·1	29	— 9
9. IRELAND, NORTH ...	75	15	*	*	*	*	1850	—137	237	—108	145	— 7	26·48	+ 2·62	3·5	—0·6	27	— 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2158	—128	167	— 92	171	+36	30·94	+ 5·76	3·5	—1·0	27	— 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2707	+121	44	— 65	153	+20	27·71	+ 9·03	5·0	—1·0	38	— 8

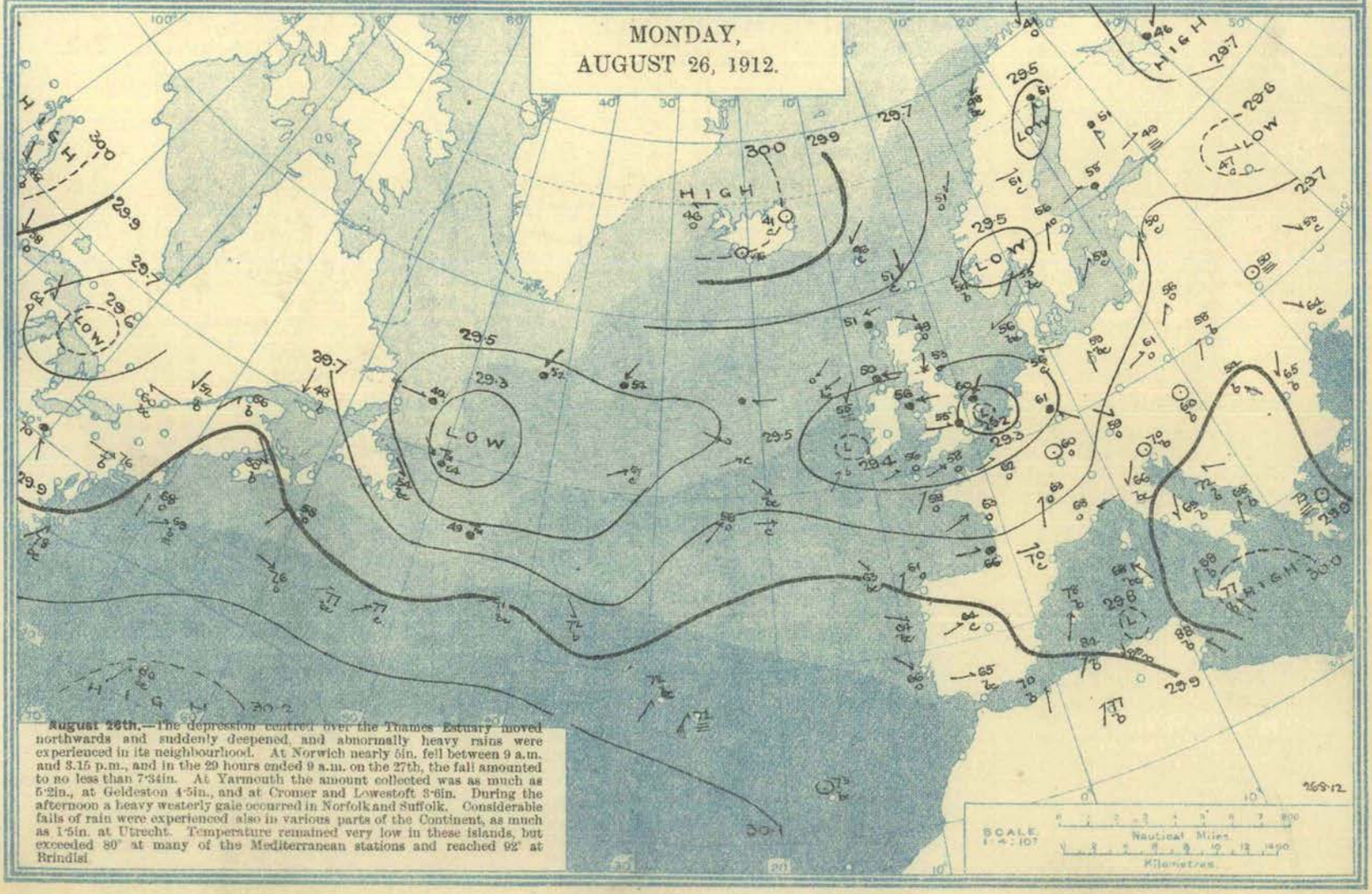
M.O., September 4, 1912.

NOTES ON TABLE IV.

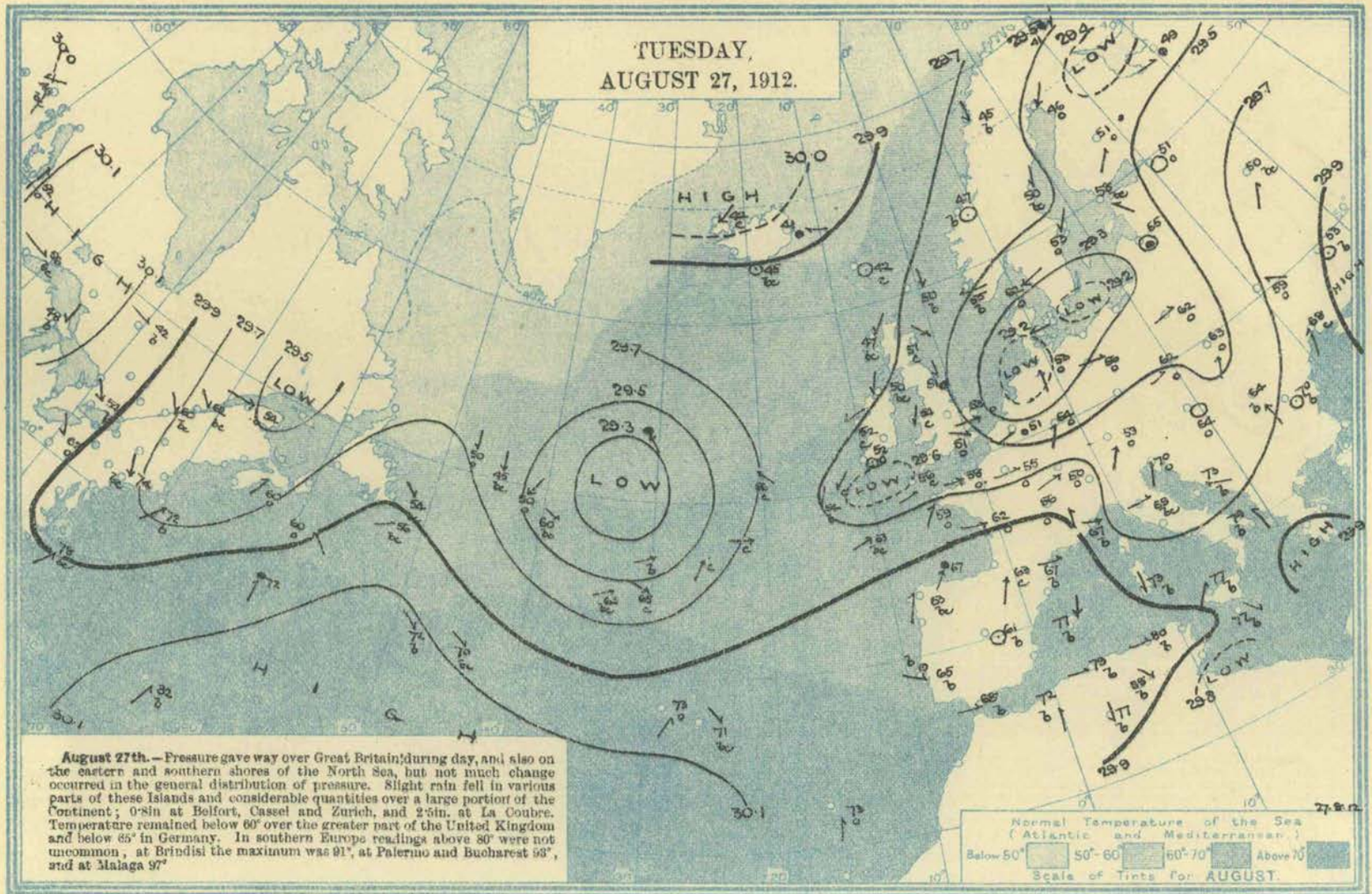
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



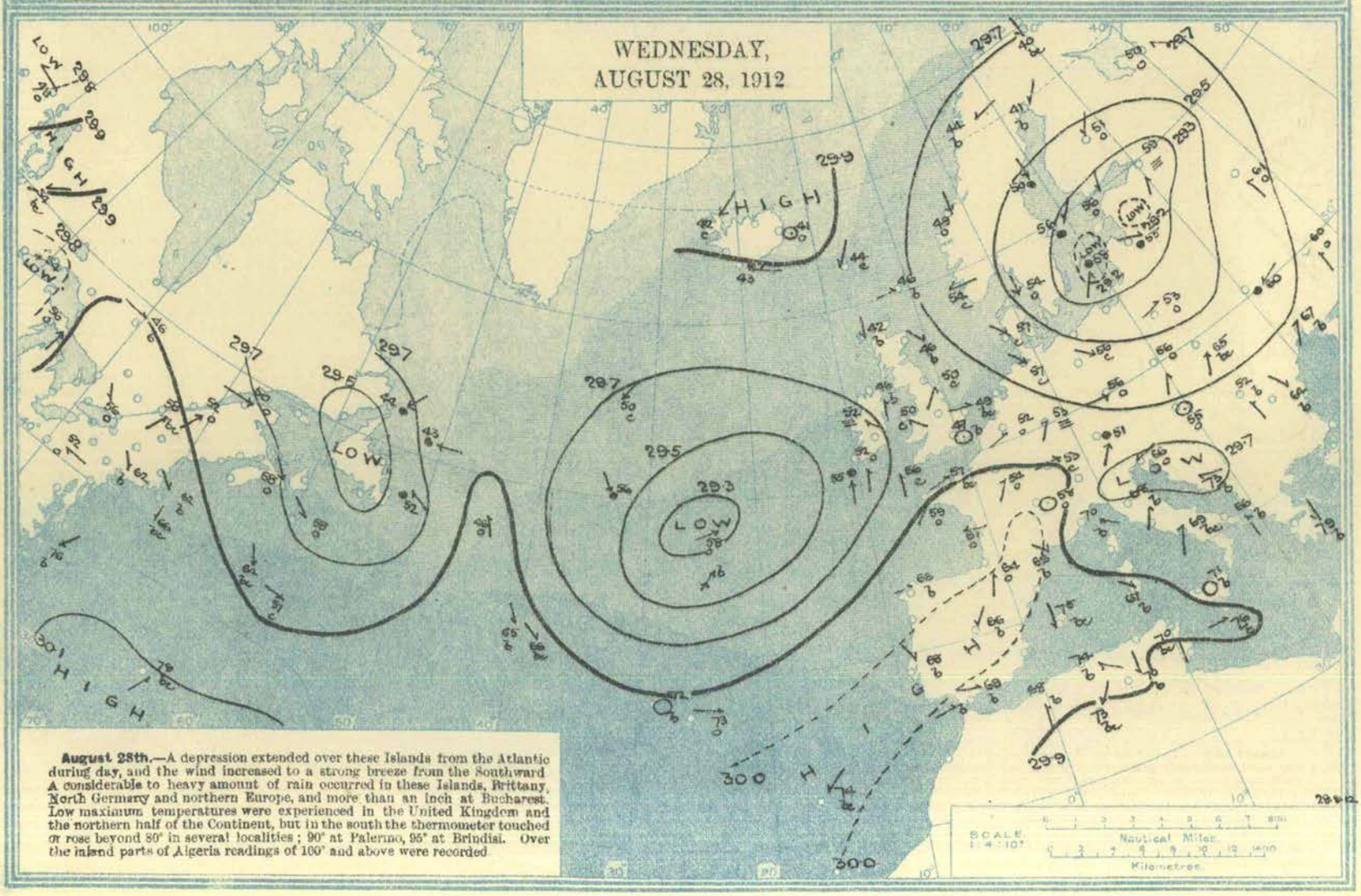
August 25th.—Another depression caused a fall of the barometer in Ireland during day, but little change occurred in the general distribution of pressure. Considerable or heavy rain was experienced in these Islands, the greater part of France, and in the north of Spain; more than an inch on the south-east coast of Kent and on the opposite side of the Channel, and also at Bordeaux, Biarritz, and Bilbao. Maximum temperatures of about 65° were recorded in a few parts of these Islands, but the thermometer remained below 60° in the north. Readings a little above 80° were rather numerous in southern Europe; 84° at Malta, and 86° at Malaga and Toulouse.



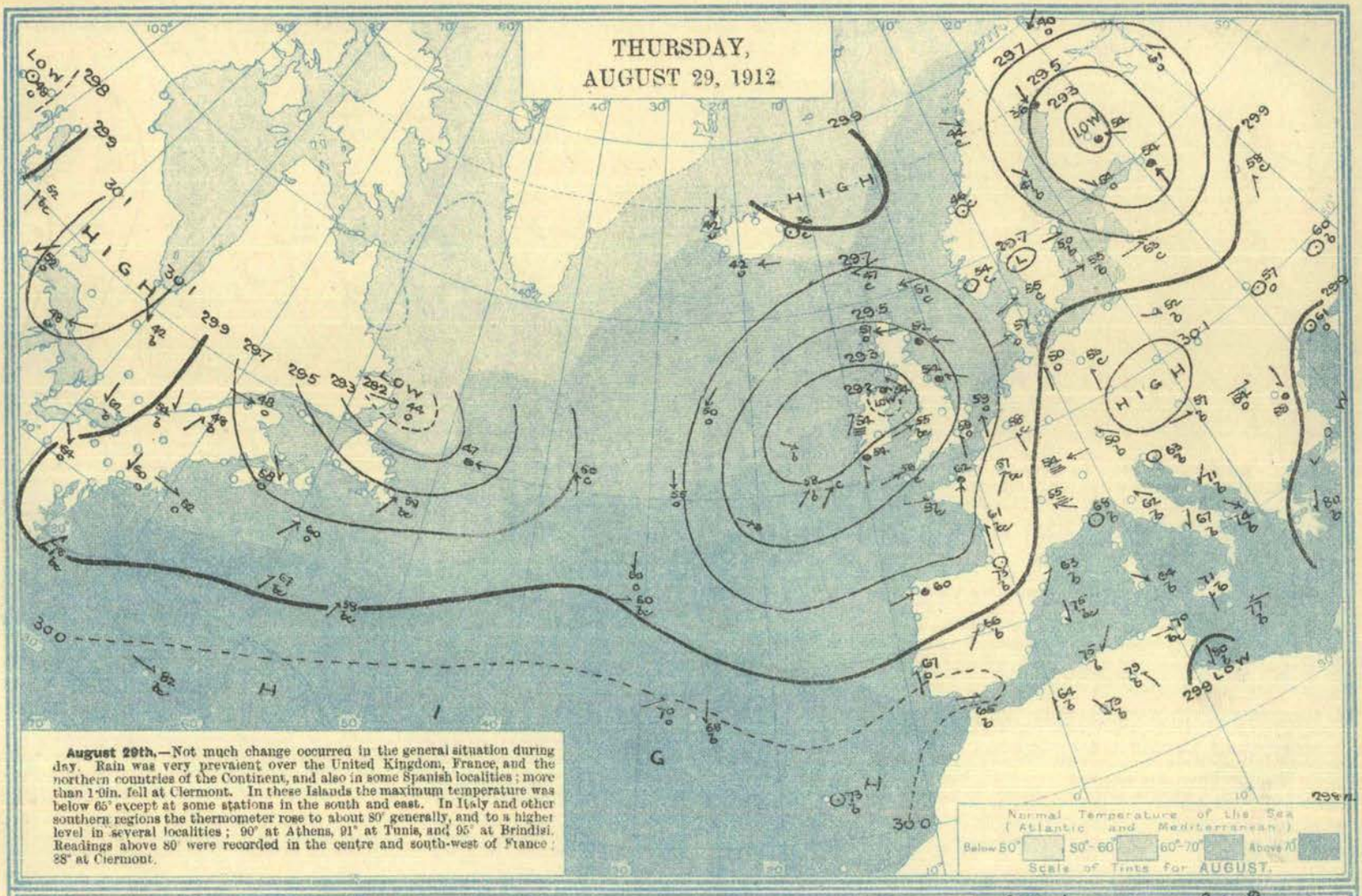
August 26th.—The depression centred over the Thames Estuary moved northwards and suddenly deepened, and abnormally heavy rains were experienced in its neighbourhood. At Norwich nearly 5in. fell between 9 a.m. and 3.15 p.m., and in the 29 hours ended 9 a.m. on the 27th, the fall amounted to no less than 7·34in. At Yarmouth the amount collected was as much as 5·2in., at Geldeston 4·5in., and at Cromer and Lowestoft 3·6in. During the afternoon a heavy westerly gale occurred in Norfolk and Suffolk. Considerable falls of rain were experienced also in various parts of the Continent, as much as 1·5in. at Utrecht. Temperature remained very low in these islands, but exceeded 80° at many of the Mediterranean stations and reached 92° at Brindisi.



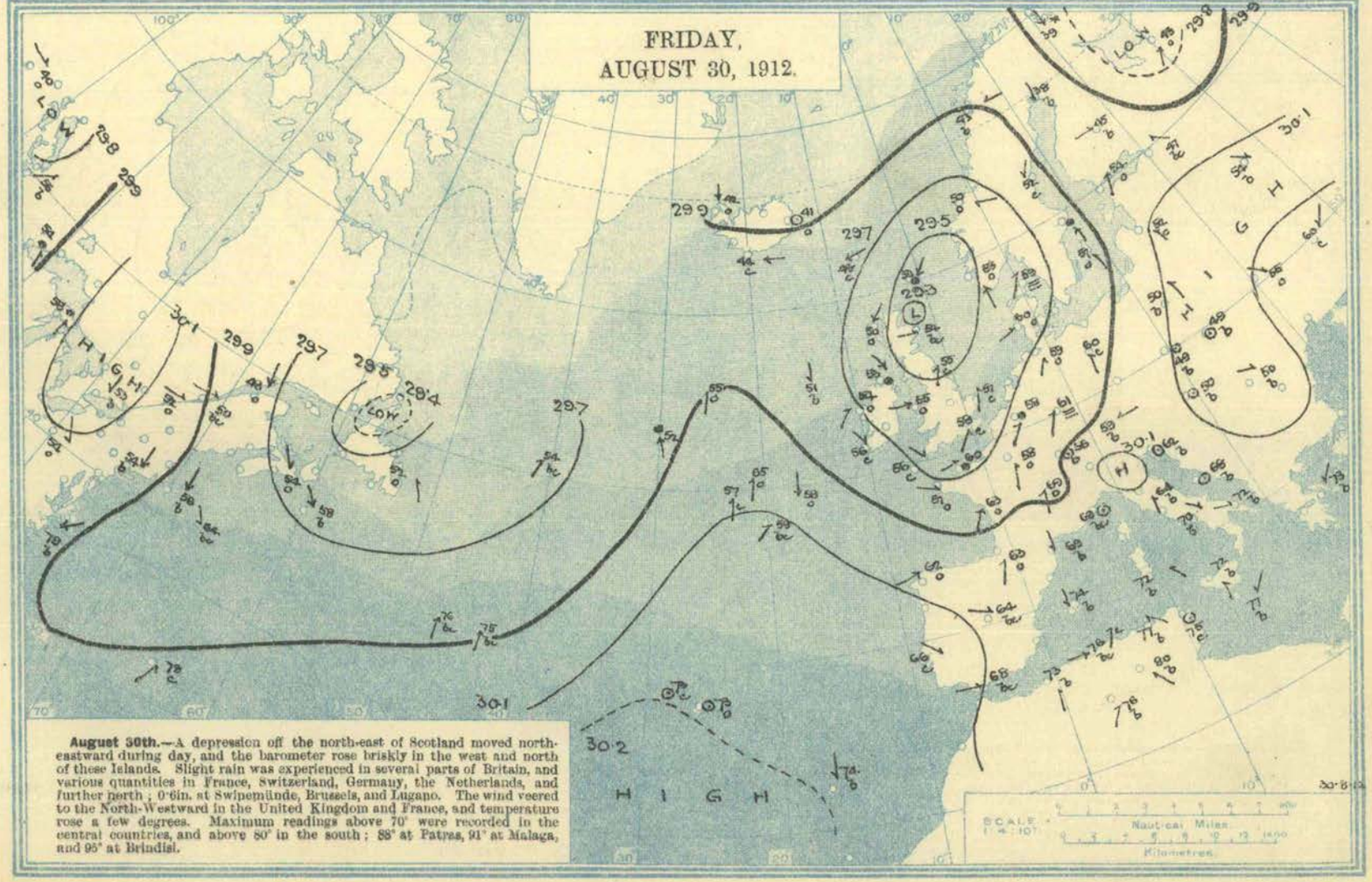
August 27th.—Pressure gave way over Great Britain during day, and also on the eastern and southern shores of the North Sea, but not much change occurred in the general distribution of pressure. Slight rain fell in various parts of these Islands and considerable quantities over a large portion of the Continent; 0·8in at Belfort, Cassel and Zurich, and 2·5in. at La Coubre. Temperature remained below 60° over the greater part of the United Kingdom and below 65° in Germany. In southern Europe readings above 80° were not uncommon, at Brindisi the maximum was 91°, at Palermo and Bucharest 93°, and at Malaga 97°



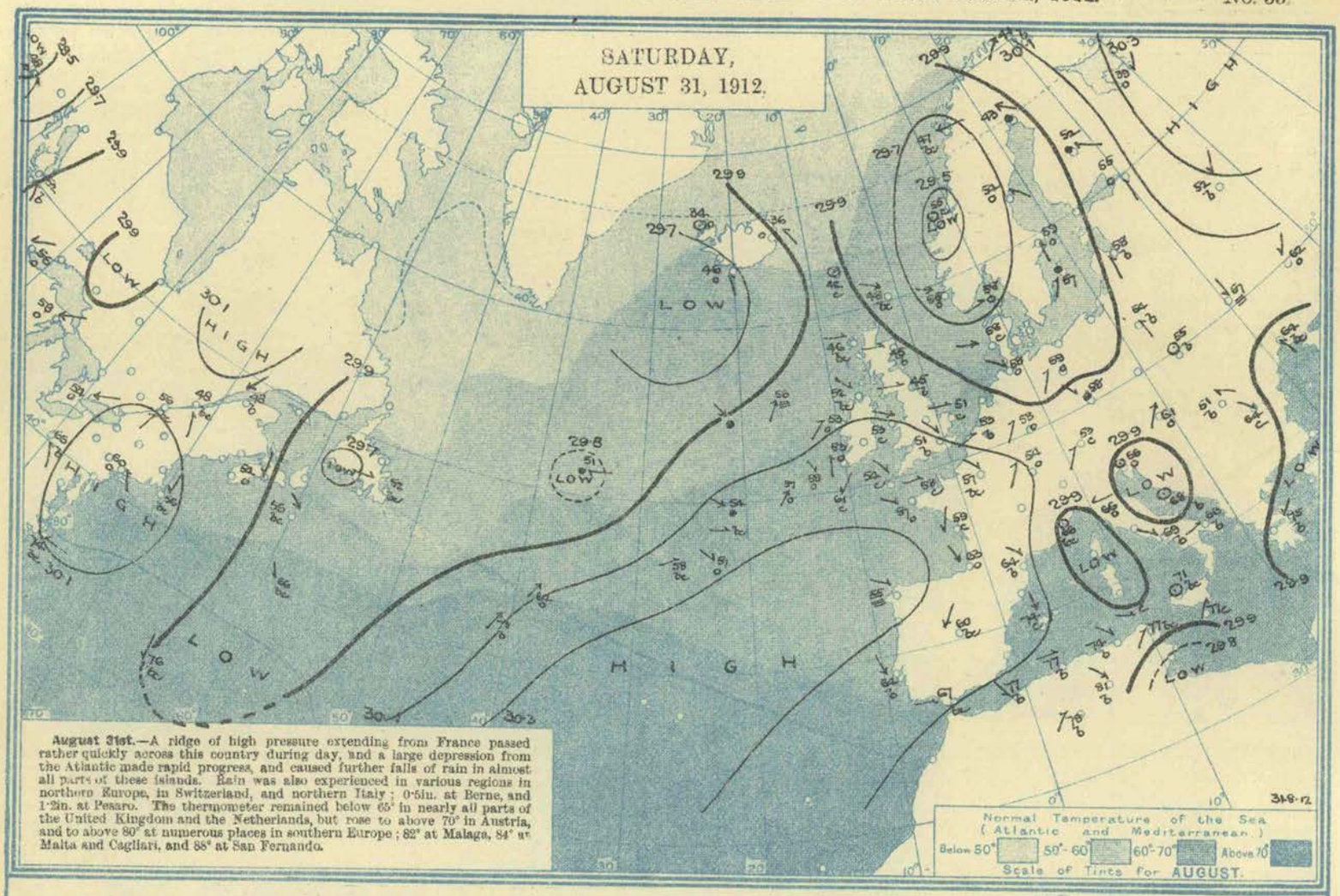
August 28th.—A depression extended over these Islands from the Atlantic during day, and the wind increased to a strong breeze from the Southward. A considerable to heavy amount of rain occurred in these Islands, Brittany, North Germany and northern Europe, and more than an inch at Bucharest. Low maximum temperatures were experienced in the United Kingdom and the northern half of the Continent, but in the south the thermometer touched or rose beyond 80° in several localities; 90° at Palermo, 95° at Brindisi. Over the inland parts of Algeria readings of 100° and above were recorded.



August 29th.—Not much change occurred in the general situation during day. Rain was very prevalent over the United Kingdom, France, and the northern countries of the Continent, and also in some Spanish localities; more than 1·0in. fell at Clermont. In these Islands the maximum temperature was below 65° except at some stations in the south and east. In Italy and other southern regions the thermometer rose to about 80° generally, and to a higher level in several localities; 90° at Athens, 91° at Tunis, and 95° at Brindisi. Readings above 80° were recorded in the centre and south-west of France; 88° at Clermont.

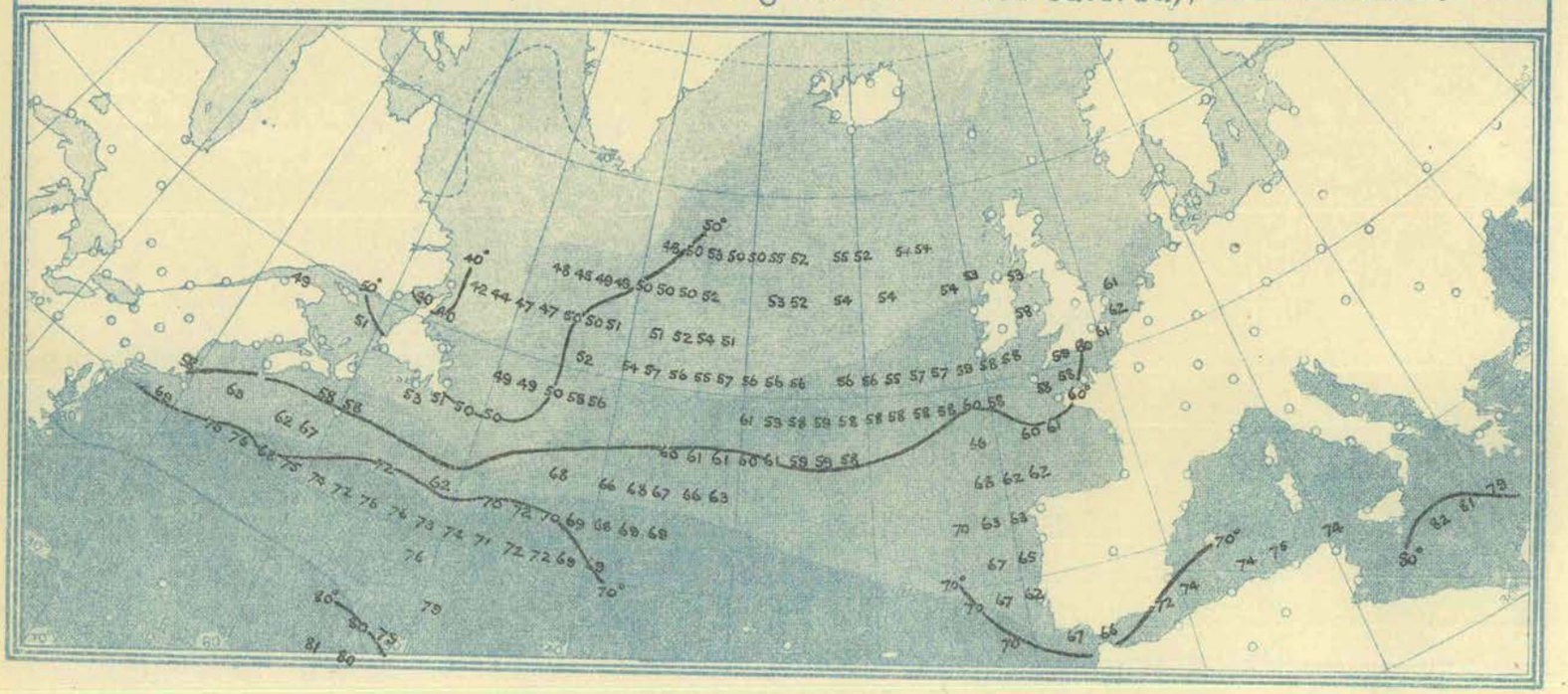


August 30th.—A depression off the north-east of Scotland moved north-eastward during day, and the barometer rose briskly in the west and north of these Islands. Slight rain was experienced in several parts of Britain, and various quantities in France, Switzerland, Germany, the Netherlands, and further north; 0·6in. at Swinemünde, Brussels, and Lugano. The wind veered to the North-Westward in the United Kingdom and France, and temperature rose a few degrees. Maximum readings above 70° were recorded in the central countries, and above 80° in the south; 88° at Patras, 91° at Malaga, and 95° at Brindisi.



August 31st.—A ridge of high pressure extending from France passed rather quickly across this country during day, and a large depression from the Atlantic made rapid progress, and caused further falls of rain in almost all parts of these islands. Rain was also experienced in various regions in northern Europe, in Switzerland, and northern Italy; 0·5in. at Berne, and 1·2in. at Pesaro. The thermometer remained below 65° in nearly all parts of the United Kingdom and the Netherlands, but rose to above 70° in Austria, and to above 80° at numerous places in southern Europe; 82° at Malaga, 84° at Malta and Cagliari, and 88° at San Fernando.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 31ST AUGUST, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; • = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* No. 36. THIRTY-SIXTH WEEK, SUNDAY, SEPTEMBER 1ST, TO SATURDAY, SEPTEMBER 7TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. As a whole the conditions were much drier than of late and also less cloudy, but rain fell on most days in the west and north. In the south and south-east of England the greater part of the week was dry. A thunderstorm occurred at Geldeston on the 6th.

Temperature continued below the average, the deficit being greatest (about 4°) in England S.E. and Scotland E., and least (1°) in Ireland S. The maxima were below 60° on some days over a large area, but between the 1st and 4th the thermometer rose to above that point generally—to 68° in England S.E. and to 69° in England E. and Ireland S. The lowest of the minima, which were recorded on rather irregular dates, ranged from 34° and 35° in Scotland E. and N. respectively to 44° in Ireland S., and to 49° in the English Channel. The lowest grass readings reported were 26° at Hampstead and Crathes, 29° at West Linton, 30° at Balmoral, and 31° at the Kew Observatory. Over the Kingdom generally the temperature of the soil both at 1 foot and 4 feet beneath the surface was below the normal.

Mean Temperature of the Sea. On all parts of the coast the temperature of the water was below the normal, the difference being 2° at most stations. The values were also lower than in the corresponding week of last year—as much as 8° or 9° on the east and south-east coasts.

Rainfall was below the average in Ireland and in all parts of England except the north-west, but in Scotland there was a large excess. Nearly all stations in Scotland W., as well as West Linton, experienced more than an inch on the 3rd, the largest amounts being 1·5 in. at Glasgow, 1·6 in. at Rothesay, 1·8 in. at Cally, Gatehouse, 2·1 in. at Fort William, and 2·4 in. at Poltalloch. At this last station 1·1 in. fell on the 7th. At several places in the Midlands and south-east of England rain fell on one day only.

Bright Sunshine was below the average in all districts. In Ireland and the north and east of Scotland the mean daily duration was less than 3 hours, but in England N.E., E., and S.E. it was more than 4½ hours. The percentage of the possible duration ranged from 37 in England E. and 36 in England S.E. to 16 in Scotland N. and to 15 in Ireland N.

Barometer and Wind. While depressions passed eastward over the northern parts of these Islands, or on a track still further to the north, the more southern districts came under the influence of an anticyclone to the south-westward of this country. The main direction of the wind was between W. and N.W. except on Tuesday, when it backed to the Southward in front of an approaching depression from the Icelandic region. From Tuesday until Friday the wind was generally fresh or strong in all exposed situations, and gales were experienced at times on various parts of our north-western, northern, and north-eastern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 143.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Very deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient
	Rainfall ...	Very heavy	Heavy	Moderate	Light	Light	Light	Very heavy	Moderate	Light	Moderate	Light	Moderate
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Very scanty	Very scanty	Very scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 1 week from Sept. 1st, 1912.	Warmth ...	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 0	0 * 1
	Rainfall ...	1 * 0	1 * 0	0 * 0	0 * 1	0 * 1	0 * 1	1 * 0	0 * 0	0 * 1	0 * 0	0 * 1	0 * 0
	Sunshine ...	0 * 1	0 * 1	0 * 0	0 * 0	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(26280—24.) Wt. 173—814. 450. 9/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	*55*	*4, 6*	*37*	*1st*	*53·1*	*44·4*	*48·5*	—	*46*	*0*	•	•	51·1	•	•	•	*7*	*1·39*	—	*2·4*	—	*18*	—	*Baltasound.*
a Lerwick	54	4, 6	42	1st	52·1	46·3	49·1	- 2·0	50	0	•	•	•	•	•	•	6	1·39	—	1·5	- 2·2	11	-17	Deerness.
a Stornoway	57	3rd	41	5th	54·1	45·7	49·7	- 3·0	54	0	•	•	•	•	•	•	7	1·60	+ 0·61	3·2	- 0·8	24	- 6	Stornoway.
a Castlebay, Barra Isd. .	*58*	*2nd*	*48*	*5, 6*	*55·4*	*49·3*	*52·2*	- *2·1*	*71*	*0*	•	•	•	•	•	•	*7*	*2·80*	—	*2·6*	—	*19*	—	*Castlebay.*
a Wick	56	4th	35	3rd	53·3	43·1	48·0	- 4·8	42	0	•	•	•	•	•	•	6	0·71	+ 0·11	•	•	•	•	
p Strathpeffer ..	59	2, 4	41	2nd	56·0	44·7	50·1	- 2·9	57	0	•	•	•	•	•	•	7	1·67	+ 1·08	2·3	- 1·6	17	-12	Strathpeffer.
p Glencarron ..	58	2nd	43	7th	53·5	44·5	48·8	- 3·0	48	0	•	•	•	•	•	•	7	4·34	+ 2·49	•	•	•	•	
p Fort Augustus..	58	2nd	41	3rd	56·0	45·6	50·6	- 3·1	60	0	•	•	•	•	•	•	6	2·12	+ 1·24	1·8	- 1·1	13	- 8	Fort Augustus.
p Fort William ..	62	1st	43	2nd	56·9	46·1	51·2	- 2·9	64	0	•	•	•	•	•	•	6	4·12	+ 2·56	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle..	59	4th	36	3rd	55·4	44 3	49·6	- 4·8	53	0	1	26	53·4	-1·6	53·5	-1·2	—	—	—	2·0	—	15	—	Crathes S.
a Nairn	58	4th	38	3rd	55·6	43·6	49·3	- 4·7	51	0	•	•	•	•	•	•	6	0·73	+ 0·12	*2·5*	—	*19*	—	*Gordon Castle.*
a Aberdeen ..	62	4th	37	3rd	57·4	43·3	50·0	- 3·8	56	0	•	•	•	•	52·1	-1·3	6	0·53	0·00	2·7	- 1·7	20	-13	Aberdeen.
a Balmoral ..	58	1st	34	3rd	53·6	41·0	47·0	- 4·1	39	3	1	30	•	•	•	•	6	0·83	+ 0·13	•	•	•	•	Balmoral.
p Crieff	63	2nd	40	2nd	58·3	44·9	51·3	- 3·6	65	0	•	•	•	•	•	•	4	1·19	+ 0·39	2·6	—	19	—	Balruddery.
a Leith	62	3rd	44	2nd	58·7	46·6	52·4	- 3·5	73	0	•	•	•	•	•	•	3	0·94	+ 0·44	•	•	•	•	
p West Linton ..	59	1, 3	35	2nd	56·0	41·1	48·2	- 4·7	47	3	1	29	•	•	•	•	5	1·93	—	*2·4*	—	*18*	—	*West Linton.*
p Marchmont ..	60	1st	40	2nd	58·0	43·6	50·5	- 3·0	60	0	0	38	51·4	-2·6	•	•	3	1·03	+ 0·35	4·6	+ 0·3	34	+ 3	Marchmont.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	64	1st	40	3rd	60·0	45·4	52·4	- 2·0	73	0	0	36	50·4	-2·8	52·9	-1·1	3	0·89	+ 0·29	4·1	—	31	—	Cockle Park.
a Shields	62	1st	43	2, 7	59·4	44·1	51·4	- 3·9	66	0	•	•	•	•	•	•	3	0·65	+ 0·15	•	•	•	•	*Newcastle.*
p Durham	63	1st	42	3, 7	58·4	44·4	51·1	- 4·4	64	0	0	34	•	•	•	•	3	0·61	+ 0·12	4·3	+ 0·1	32	+ 1	Durham.
a, North .. *p* Rounton	64	1st	40	3rd	59·1	44·3	51·3	- 3·7	65	0	0	34	54·3	•	•	•	5	0·57	+ 0·10	•	•	•	•	Rounton.
a West Witton	*62*	*1st*	*41*	*3rd*	*58·0*	*45·7*	*51·6*	—	*67*	*0*	0	37	54·0	•	53·5	•	*5*	*0·59*	—	•	•	•	•	*West Witton.*
p Scarborough	66	1st	46	5, 7	61·0	47·9	54·1	- 2·1	85	0	•	•	•	•	57·2†	•	4	0·28	- 0·22	4·2	—	32	—	Scarborough.
p York	66	1st	43	3, 7	60·6	47·1	53·5	- 3·1	81	0	•	•	56·2	-1·0	56·2	-0·6	4	0·70	+ 0·23	4·0	- 0·3	30	- 2	York.
a Spurn Head	63	1st	45	7th	59·1	47·7	53·1	- 4·5	78	0	0	35	54·9	-1·6	55·3	-1·0	4	0·40	+ 0·02	*3·8*	—	*29*	—	*Hull.*
b South .. *a* Lincoln	65	1st	41	3rd	60·7	47·0	53·5	- 3·9	81	0	0	•	54·8	-2·9	55·7	-1·4	4	0·33	- 0·14	•	•	•	•	Lincoln.
a Fulbeck	65	1, 2	37	3rd	61·3	45·0	52·8	- 4·5	76	0	0	37	57·1	-2·5	56·0	-2·2	5	0·36	- 0·10	5·6	—	42	—	Rauceby.
											•	•	•	•	•	•	—	—	—	5·7	—	43	—	Skegness.
3. ENGLAND, E.											0	42	57·8	-2·2	58·7	-0·7	—	—	—	*4·5*	—	*34*	—	*Lowestoft.*
p Cromer	64	4th	47	5, 6	58·9	49·3	53·9	- 3·5	83	0	•	•	•	•	•	•	5	0·38	—	5·2	—	39	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	65	4th	46	6, 7	60·1	48·3	53·9	- 4·0	81	0	•	•	57·0	-3·4	58·6	-2·2	5	0·37	- 0·13	4·8	—	36	—	Yarmouth.
a Norwich	64	3, 4	45	3, 6, 7	60·3	48·4	54·1	- 3·8	85	0	0	36	57·5	•	•	•	4	0·37	—	*4·7*	—	*35*	—	*Norwich.*
p Geldeston	66	1, 4	44	3, 7	62·0	47·0	54·1	- 3·5	85	0	•	•	•	•	•	•	4	0·20	- 0·28	4·2	- 1·4	32	-10	Geldeston.
p Cambridge	66	4th	45	6, 7	61·7	48·4	54·7	- 3·9	89	0	0	37	58·4	-0·9	59·0	-0·3	2	0·15	- 0·31	5·2	- 0·2	39	- 2	Cambridge.
a Felixstowe	*66*	*4th*	*44*	*3rd*	*62·0*	*49·0*	*55·2*	- *3·5*	*92*	*0*	•	•	•	•	•	•	*4*	*0·22*	—	*6·2*	—	*47*	—	*Felixstowe.*
a Clacton-on-Sea ..	69	4th	44	3rd	62·1	47·7	54·6	- 4·1	88	0	0	40	57·4	-2·1	58·0	-1·6	5	0·15	—	5·2	—	40	—	Clacton.
b, South .. *a* Rothamsted	65	3, 4, 5	39	3rd	62·3	46·6	54·1	- 2·6	85	0	•	•	•	•	•	•	3	0·08	- 0·45	4·2	- 1·1	32	- 8	Rothamsted.
a Shoeburyness	*68*	*4th*	*44*	*7th*	*63·4*	*48·4*	*55·1*	- *4·6*	*92*	*0*	0	37	58·9	-3·3	•	•	*2*	*0·10*	- *0·30*	*4·7*	—	*36*	—	*Southend.*
p Tottenham	65	1, 4	44	3rd	59·6	50·1	54·6	- 4·0	88	0	0	37	•	•	59·4	-1·8	1	0·02	—	5·2	—	40	—	Tottenham.
4. MIDLAND COUNTIES.											0	33	54·5	-2·6	54·8	-1·5	—	—	—	*5·5*	—	*41*	—	*Huddersfield.*
a Harrogate	61	1st	42	3, 7	56·9	45·4	50·9	- 4·1	62	0	0	35	53·7	-1·2	54·2	-0·6	4	0·49	- 0·08	5·0	—	38	—	Harrogate.
a Bawtry	64	1st	41	3rd	59·9	46·7	53·0	- 3·6	77	0	0	35	56·0	•	55·8	•	5	0·38	- 0·05	4·2	0·0	32	0	Worksop.
p Buxton	*59*	*1st*	*38*	*3rd*	*54·3*	*44·9*	*49·4*	- *5·5*	*52*	*0*	0	34	53·8	-2·0	52·7	-2·2	7	*1·47*	+ *0·54*	*3·2*	—	*24*	—	*Buxton.*
a East .. *a* Nottingham	64	4th	40	3rd	60·3	46·0	52·8	- 3·9	76	0	0	36	55·3	-1·4	57·0	-1·0	5	0·25	- 0·23	4·0	—	30	—	Nottingham.
p Birmingham, Edgbsn.	61	4th	45	3, 6	57·4	48·0	52·5	- 4·6	74	0	0	32	52·3	-2·0	52·8	-0·9	3	0·14	- 0·37	2·1	—	16	—	Birmingham.
a Raunds	66	4th	39	3rd	62·7	45·7	53·8	- 3·4	83	0	0	37	57·7	•	57·8	•	2	0·08	—	•	•	•	•	Raunds.
a Oxford	65	4th	43	6th	60·7	47·4	53·7	- 4·3	82	0	0	•	•	•	•	•	3	0·09	- 0·36	4·2	- 1·1	32	- 8	Oxford.
											0	37	55·4	-1·3	55·0	-1·1	—	—	—	5·2	—	39	—	Sheffield.
a Cheadle	62	4, 5	42	2, 3	58·3	44·1	50·9	- 4·0	62	0	1	30	•	•	•	•	4	0·60	- 0·06	•	•	•	•	Cheadle.
p Shrewsbury	63	3, 4	44	3rd	60·3	48·3	54·0	- 3·1	84	0	0	40	—	—	—	—	1	0·04	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	65	4, 7	43	3rd	61·9	48·0	54·6	- 2·4	88	0	0	39	•	•	•	•	1	0·04	- 0·46	•	•	•	•	Hereford.
a Cirencester	62	4th	42	3rd	59·3	45·7	52·2	- 3·5	71	0	0	39	55·8	•	56·0	•	1	0·02	- 0·58	4·5	- 0·6	34	- 5	Cirencester.
a Bath	64	1, 4	46	3, 6, 7	62·3	48·6	55·1	- 2·7	92	0	•	•	59·3	-1·8	59·8	-1·1	2	0·06	- 0·53	3·6	—	28	—	Bath.
											0	38	58·3	-1·1	58·6	-1·4	—	—	—	•	•	•	•	Canterbury.
5. ENGLAND, S.E.											0	31	58·1	-1·1	57·7	-0·7	3	0·12	- 0·38	4·2	- 1·1	32	- 8	Kew.
p Kew	65	4th	43	3rd	61·0	48·7	54·6	- 3·8	88	0	0	35	56·3	•	56·0	•	3	0·09	- 0·48	3·3	- 1·7	25	-13	Marlborough
a Marlborough	66	4th	40	3rd	61·2	45·3	52·9	- 2·9	76	0	0	•	57·9	-1·5	57·7	-1·4	3	0·21	- 0·25	4·2	- 1·2	32	- 9	Margate.
a Margate	68	4th	50	5, 6, 7	61·9	51·4	56·4	- 3·3	101	0	0	35	57·9	-1·4	58·3	-1·3	1	0·02	—	4·4	—	34	—	Wisley
a Wisley, Surrey ..	66	4th	41	3rd	62·0	47·6	54·5	- 4·4	88	0	0	40	59·7	-1·1	59·4	-1·1	2	0·04	- 0·52	5·3	—	41	—	Worthing.
a Swarraton	64	4th	42	3rd	60·7	47·1	53·6	- 3·2	81	0	0	36	58·1	-1·9	•	•	3	0·09	- 0·44	5·4	- 0·3	41	- 2	Tunbridge Wells.
a Tunbridge Wells ..	67	4th	41	3rd	61·0	48·7	53·5	- 4·1	81	0	•	•	•	•	•	•	1	0·35	- 0·12	5·3	—	41	—	Littlestone.
a Dungeness	68	4th	40	3rd	63·4	46·9	54·8	- 4·6	90	0	0	40	59·5	•	60·0	•	3	0·09	- 0·59	*5·6*	- *0·5*	*43*	- *4*	*Hastings.*
p Hastings..	68	4th	44	3, 6	62·4	48·3	55·0	- 4·3	91	0	0	38	•	•	•	•	0	0·00	- 0·55	4·7	- 1·2	36	- 9	Southampton.
p Southampton	67	4th	45	3rd	62·7	49·9	56·0	- 3·7	98	0	0	39	•	•	•	•	2	0·02	- 0·55	4·6	- 1·6	35	-12	Ventnor.
a Ventnor	66	4th	47	7th	62·7	50·9	56·5	- 4·0	102	0	•	•	•	•	•	•				*4·4*	—	*34*	—	*Portsmouth.*
											0	41	58·8	-2·1	59·6	-1·5	—	—	—	5·8	- 0·1	44	- 1	Eastbourne.
											•	•	59·5	•	59·7	•	—	—	—	*5·0*	—	*38*	—	*Bournemouth.*
											•	•	58·4	•	58·9	•	—	—	—	*5·1*	- *1·0*	*39*	- *·8*	*Brighton.*
LONDON.											0	40	•	•	60·3	•	—	—	—	*4·3*	- *0·3*	*33*	- *2*	*Westminster.*
a Westminster	*67*	*4th*	*45*	*3, 7*	*63·3*	*49·9*	*56·3*	- *2·6*	*100*	*0*	0	39	•	•	•	•	*1*	*0·06*	- *0·41*	*4·8*	- *1·0*	*37*	- *7*	*Greenwich.*
a Greenwich	*69*	*4th*	*48*	*3rd*	*63·0*	*48·1*	*55·2*	- *4·9*	*92*	*0*	0	32	•	•	•	•	*2*	*0·16*	- *0·29*	*5·0*	—	*38*	—	*Hampstead.*
a Hampstead	*63*	*1, 5*	*42*	*3rd*	*60·9*	*47·0*	*53·6*	—	*81*	*0*	2	26	•	•	•	•	*4*	*0·10*	—	*4·5*	—	*34*	—	*Camden Square*
a Camden Square ..	*69*	*4th*	*48*	*3rd*	*64·3*	*47·9*	*55·7*	—	*96*	*0*	0	39	•	•	•	•	*2*	*0·07*	—					
6. *a*, SCOTLAND, W.																							
a Poltalloch .. S	60	2nd	48	2, 5, 6	55·9	49·0	52·3	- 2·9	72	0	•	•	•	•	•	•	7	4·71	+ 3·60	•	•	•	•	
p Glasgow	61	2nd	44	2nd	58·0	47·4	52·5	- 1·7	74	0	0	35	•	•	•	•	6	2·57	+ 1·75	2·5	- 1·2	19	- 9	Glasgow.
p Rothesay	64	2nd	45	2nd	58·9	47·7	53·0	- 2·1	77	0	•	•	•	•	54·0	-0·6	6	3·48	+ 2·44	•	•	•	•	
a Kilmarnock	61	2, 3	40	2nd	58·1	46·4	52·0	- 2·4	70	0	•	•	•	•	•	•	6	2·49	—	*2·4*	—	*18*	—	*Kilmarnock.*
a Colmonell	63	3, 4	48	3rd	59·6	48·1	53·6	- 2·1	81	0	0	43	•	•	•	•	7	1·61	+ 0·68	•	•	•	•	
p Dumfries	61	1, 4	41	2nd	58·7	46·1	52·1	- 4·4	71	0	0	36	54·4	•	56·0	•	5	1·63	+ 0·88	*4·1*	—	*31*	—	*Dumfries.*
p Cally, Gatehouse	62	2, 3	41	2nd	59·7	46·0	52·5	- 1·6	74	0	•	•	•	•	•	•	6	2·90	+ 1·91	•	•	•	•	
b I. OF MAN.																							
p Douglas	61	3rd	47	6th	57·7	49·0	53·1	- 1·9	78	0	0	45	•	•	•	•	6	1·11	+ 0·21	4·0	- 1·1	30	- 9	Douglas.
											0	34	53·6	-1·2	54·1	-1·0	—	—	—	*3·1*	—	*23*	—	*Burnley.*
											0	43	•	•	•	•	—	—	—	3·2	—	24	—	Hoylake.
7. *a*, ENGLAND, N.W.																							
p Aspatria	60	1, 2, 3, 4	43	2nd	58·4	46·9	52·4	- 2·5	73	0	0	36	54·7	•	54·5	•	6	1·34	+ 0·43	2·7	—	20	—	Aspatria.
p Newton Rigg	62	4th	38	3rd	58·7	43·7	50·8	- 2·8	62	0	0	32	54·2	-2·0	54·1	-1·3	5	1·31	+ 0·60	2·8	- 1·6	21	-12	Newton Rigg.
p Stonyhurst	59	1, 3, 4	42	3rd	57·6	47·3	52·2	- 2·9	71	0	0	36	•	•	•	•	5	2·33	+ 1·27	2·6	- 1·9	20	-14	Stonyhurst.
p Blackpool	61	4th	43	3rd	58·6	50·1	54·2	- 2·5	85	0	0	34	55·3	•	55·3	•	6	0·84	+ 0·08	3·7	- 0·7	28	- 7	Blackpool.
p Manchester (Whit. Pk.)	*60*	*1, 3, 4*	*43*	*3rd*	*58·0*	*49·4*	*53·5*	—	*84*	*0*	0	34	•	•	•	•	6	1·26	—	*1·9*	—	*14*	—	*Whit. Park.*
a Liverpool (Bidston) ..	62	3rd	49	3-6	58·3	50·0	54·0	- 2·5	84	0	•	•	•	•	•	•	6	0·51	- 0·13	2·7	—	*20*	—	*Liverpool.*
a Hawarden Bridge ..	65	3rd	48	3rd	59·9	50·1	54·8	- 2·9	90	0	0	36	56·6	-2·1	57·9	-1·5	6	0·22	- 0·30	*3·4*	- *1·5*	*26*	- *11*	*Southport.*
											0	39	55·4	-1·7	57·2	-1·3	—	—	—	*3·1*	—	*23*	—	*Manchester City)*
b, NORTH WALES.																							
p Llandudno	66	3rd	49	3, 5	60·7	50·7	55·5	- 2·2	93	0	•	•	•	•	•	•	5	0·54	- 0·05	2·7	- 2·0	20	-15	Llandudno.
a Holyhead	62	4th	50	2, 5, 6, 7	59·6	51·0	55·1	- 1·9	92	0	•	•	•	•	•	•	6	0·52	- 0·14	3·8	—	29	—	Aberdovey.
p Bettws-y-Coed ..	64	3rd	43	3rd	60·7	48·1	54·1	- 2·9	85	0	0	43	54·4	-0·2	54·7	-0·1	7	1·01	—	2·2	—	17	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				3·5	—	26	—	Aberystwyth.
a Llangammarch Wells	60	1, 3, 4	42	3, 7	57·7	46·7	51·9	- 3·0	69	0	0	35	54·5	-2·0	54·4	-1·3	4	0·49	—	3·1	—	23	—	Llangammarch
a Pembroke	60	3rd	52	6, 7	58·7	52·7	55·6	- 1·8	95	0	*	*	*	*	*	*	2	0·04	- 0·64	4·2	- 1·2	32	- 9	Pembroke.[Wells
p Cardiff	62	1st	44	6th	60·1	48·3	53·9	- 3·9	83	0	0	41	56·5	-2·0	57·0	-1·8	2	0·25	- 0·62	*4·9*	—	*37*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	63	4th	43	7th	61·1	50·3	55·4	- 3·2	94	0	0	42	*	*	*	*	1	0·15	- 0·52	*5·3*	—	*41*	—	*Clifton.*
a Shaftesbury	65	1st	43	3, 5, 6	60·1	46·3	52·9	- 4·2	76	0	*	*	56·8	*	57·3	*	3	0·08	- 0·59	*	*	*	*	Shaftesbury.
a Arlington	61	4, 5	42	3rd	59·3	47·9	53·3	- 3·0	79	0	*	*	58·7	*	*	*	3	0·59	- 0·50	4·0	- 1·9	31	-14	Newquay.
a Cullompton	65	1, 7	42	7th	63·0	48·6	55·5	- 2·0	95	0	0	37	58·3	*	*	*	4	0·16	- 0·47	4·6	- 0·7	35	- 5	Cullompton.
a Portland	63	7th	53	6, 7	60·7	54·0	57·2	- 2·2	106	0	*	*	*	*	*	*	2	0·04	—	*4·6*	—	*35*	—	*Weymouth.*
p Plymouth	63	4th	48	3rd	61·1	51·8	56·2	- 2·6	99	0	0	36	58·3	-2·1	*	*	3	0·18	- 0·46	4·8	- 0·9	37	- 7	Plymouth.
p Falmouth	63	3rd	51	7th	60·0	52·9	56·3	- 2·2	100	0	*	*	*	*	*	*	2	0·27	- 0·59	4·1	- 1·9	31	-15	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	59	3, 4	46	5th	56·6	48·6	52·4	- 2·9	73	0	*	*	*	*	*	*	7	1·27	+ 0·53	*	*	*	*	*
a Blacksod Point ...	60	3rd	48	6th	58·0	49·4	53·5	- 2·2	81	0	*	*	*	*	*	*	5	0·51	- 0·49	*	*	*	*	*
p Markree Castle ..	64	3rd	48	2, 7	58·4	46·3	52·1	- 2·5	71	0	0	39	56·2	*	55·1	*	7	1·07	+ 0·17	1·8	- 2·0	14	-15	Markree Castle.
a Birr Castle	67	3rd	45	7th	59·9	46·9	53·1	- 2·4	78	0	*	*	*	*	*	*	4	0·27	- 0·41	*2·4*	*- 2·0*	*18*	*-15*	*Birr Castle.*
b, East .. { *p* Armagh	67	3rd	42	2nd	60·4	46·7	53·2	- 1·7	78	0	0	35	56·4	-1·1	55·9	-1·2	6	0·51	- 0·16	2·2	- 1·8	17	-14	Armagh.
a Donaghadee	64	3rd	46	2nd	58·7	48·0	53·1	- 2·6	78	0	*	*	*	*	*	*	3	0·79	+ 0·11	*	*	*	*	*
10. IRELAND, S.											0	39	56·2	-1·7	55·8	-1·8	—	—	—	*	*	*	*	Trinity Coll.
p Dublin, City	69	3rd	46	6th	61·3	49·1	51·9	- 2·4	90	0	0	36	*	*	*	*	—	—	—	3·2	- 1·7	24	-13	Phœnix Park.
a, East .. { *a* Kilkenny	68	3rd	46	7th	60·9	49·3	54·8	- 1·2	90	0	0	43	*	*	*	*	4	0·10	- 0·53	*	*	*	*	Dublin City.
a Waterford	68	3rd	44	7th	61·6	49·3	55·2	- 1·6	92	0	*	*	*	*	*	*	4	0·11	- 0·54	*	*	*	*	*
																	2	0·08	- 0·67	*	*	*	*	*
{ *a* Birr Castle	67	3rd	45	7th	59·9	46·9	53·1	- 2·4	78	0	*	*	*	*	*	*	4	0·27	- 0·41	2·4	- 2·0	18	-15	Birr Castle.
{ *a* Foynes	65	2, 3	50	5th	59·9	52·6	56·1	- 0·5	99	0	*	*	*	*	*	*	5	0·40	- 0·37	*	*	*	*	*
b, West .. { *a* Cahir	68	3rd	46	7th	60·7	50·1	55·2	- 1·1	92	0	*	*	*	*	*	*	4	0·27	—	*	*	*	*	*
{ *a* Killarney	68	3rd	48	7th	62·4	51·9	56·9	+ 0·6	104	0	*	*	*	*	*	*	6	0·29	- 0·67	*	*	*	*	*
{ *a* Valencia	63	3rd	49	7th	59·7	52·3	55·8	- 1·3	97	0	*	*	*	*	*	*	4	0·44	- 0·60	0·8	- 3·8	6	- 28	Valencia.
{ *a* Roche's Point ..	66	3rd	46	7th	60·9	51·1	55·8	- 1·4	97	0	*	*	*	*	*	*	4	0·15	- 0·63	2·4	—	18	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	62	2, 3, 4	52	6, 7	60·4	53·3	56·7	- 2·7	103	0	*	*	*	*	*	*	4	0·26	- 0·34	3·8	- 2·5	29	-19	Scilly.
a Jersey, St. Aubins ..	64	2, 7	50	3rd	62·7	53·3	57·8	- 3·6	111	0	*	*	*	*	*	*	2	0·24	- 0·36	4·1	- 2·6	31	-20	St. Heliers.
a Guernsey (Villa Carey)	63	2, 3, 7	49	3rd	61·7	52·9	57·1	- 3·6	108	0	0	41	60·5	-1·9	60·3	-1·5	3	0·16	- 0·51	4·6	- 2·1	35	-16	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·3 hrs. 41 °/₀; Ramsgate, 5·2 hrs. 40 °/₀; Rhyl, 2·8 hrs. 21 °/₀; Salcombe, 4·8 hrs. 37 °/₀; Tenby, 5·9 hrs. (+0·4) 45 °/₀ (+ 3 °/₀); Torquay, 5·1 hrs. (−0·8) 33 °/₀ (− 6 °/₀)*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, September 7th.

Taken daily at or about sunrise and at 4 p.m.

District.	Station.	Highest.	Lowest.	Mean.	Difference from Average.	District.	Station.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	52	52	52·0	-0·3	SCOTLAND, W. ..	Lamlash	57	51	53·7	-1·5
	Kirkwall	54	49	51·6	-2·0		Ballantrae	57	53	55·1	-0·6
	Wick	52	49	50·9	-2·2	ENGLAND, N.W. ..	Port Erin	57	55	56·1	-0·3
SCOTLAND, E. ..	Cromarty	55	52	53·9	-1·1		Newquay	59	59	59·0	-1·8
	Penman Bay	54	53	53·4	-0·8	ENGLAND, S.W. ..	Scilly	58	56	57·1	
	Aberdeen, Cove Bay	54	53	53·5	-0·1		Plymouth‡	58	57	57·5	-2·0
ENGLAND, N.E. ..	Burnmouth, Berwick	53	49	51·3	-1·9		Salcombe	60	56	57·8	-1·7
	Scarborough	56	54	55·5	-0·3		Sheephaven	58	53	54·6	-3·5
ENGLAND, E. ..	Shipwash Lightship	61	57	58·9	-2·9	IRELAND, N.W. ..	Teelin	57	54	55·9	-2·6
	Margate‡	61	59	59·7	-2·2		Cleggan	57	56	56·2	-0·2
ENGLAND, S.E. ..	Eastbourne‡	60	58	59·4	-3·0	IRELAND, S.W. ..	Seafield	59	54	57·4	-1·7
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881–1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-SIXTH WEEK—September 1st to September 7th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	62	35	54·6	45·1	49·6	− 3·6	53	− 26	0	0	6	+ 1	2·28	+1·29	2·2	−1·4	16	−10
Eastern.																		
1. SCOTLAND, EAST ...	63	34	56·6	43·6	49·8	− 4·4	55	− 31	0	0	5	+ 1	1·02	+0·50	2·7	−1·7	20	−13
2. ENGLAND, N.E.	66	37	60·0	45·9	52·6	− 3·3	74	− 24	0	0	4	+ 1	0·53	−0·07	4·7	−0·2	35	− 1
3. ENGLAND, EAST ...	69	39	61·0	48·2	54·3	− 3·4	86	− 24	0	0	4	+ 1	0·22	−0·26	4·9	−0·5	37	− 4
4. MIDLAND COUNTIES ...	66	39	60·0	46·7	53·0	− 3·5	77	− 25	0	0	3	0	0·20	−0·31	4·1	−0·6	31	− 5
5. ENGLAND, S.E.	68	40	61·9	48·3	54·8	− 4·0	90	− 28	0	0	2	− 1	0·10	−0·47	4·7	−0·8	36	− 6
Western.																		
6. SCOTLAND, WEST ...	64	40	58·3	47·5	52·8	− 2·0	76	− 14	0	0	6	+ 3	2·56	+1·62	3·3	−1·4	24	−10
7. ENGLAND, N.W.	66	38	59·2	48·7	53·7	− 2·6	82	− 18	0	0	6	+ 3	0·96	+0·26	3·0	−1·6	22	−12
8. ENGLAND, S.W.	65	42	60·2	50·0	54·8	− 2·7	90	− 18	0	0	3	− 1	0·22	−0·49	4·0	−1·2	31	− 9
9. IRELAND, NORTH ...	67	42	58·7	47·7	52·9	− 2·3	76	− 17	0	0	5	0	0·74	−0·04	2·0	−2·0	15	−15
10. IRELAND, SOUTH ...	69	44	60·8	50·3	55·3	− 1·1	93	− 8	0	0	4	0	0·23	−0·48	2·2	−2·5	17	−19
11. ENGLISH CHANNEL ...	64	49	61·6	53·2	57·2	− 2·9	106	− 21	0	0	3	0	0·22	−0·34	4·2	−2·3	32	−17

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 1 Week, September 1st to September 7th, 1912.

0. SCOTLAND, NORTH ...	62	35	*	*	*	*	53	− 26	0	0	6	+ 1	2·28	+1·29	2·2	−1·4	16	−10
Eastern.																		
1. SCOTLAND, EAST ...	63	34	*	*	*	*	55	− 31	0	0	5	+ 1	1·02	+0·50	2·7	−1·7	20	−13
2. ENGLAND, N.E.	66	37	*	*	*	*	74	− 24	0	0	4	+ 1	0·53	−0·07	4·7	−0·2	35	− 1
3. ENGLAND, EAST ...	69	39	*	*	*	*	86	− 24	0	0	4	+ 1	0·22	−0·26	4·9	−0·5	37	− 4
4. MIDLAND COUNTIES ...	66	39	*	*	*	*	77	− 25	0	0	3	0	0·20	−0·31	4·1	−0·6	31	− 5
5. ENGLAND, S.E.	68	40	*	*	*	*	90	− 28	0	0	2	− 1	0·10	−0·47	4·7	−0·8	36	− 6
Western.																		
6. SCOTLAND, WEST ...	64	40	*	*	*	*	76	− 14	0	0	6	+ 3	2·56	+1·62	3·3	−1·4	24	−10
7. ENGLAND, N.W.	66	38	*	*	*	*	82	− 18	0	0	6	+ 3	0·96	+0·26	3·0	−1·6	22	−12
8. ENGLAND, S.W.	65	42	*	*	*	*	90	− 18	0	0	3	− 1	0·22	−0·49	4·0	−1·2	31	− 9
9. IRELAND, NORTH ...	67	42	*	*	*	*	76	− 17	0	0	5	0	0·74	−0·04	2·0	−2·0	15	−15
10 IRELAND, SOUTH ...	69	44	*	*	*	*	93	− 8	0	0	4	0	0·23	−0·48	2·2	−2·5	17	−19
11. ENGLISH CHANNEL ...	64	49	*	*	*	*	106	− 21	0	0	3	0	0·22	−0·34	4·2	−2·3	32	−17

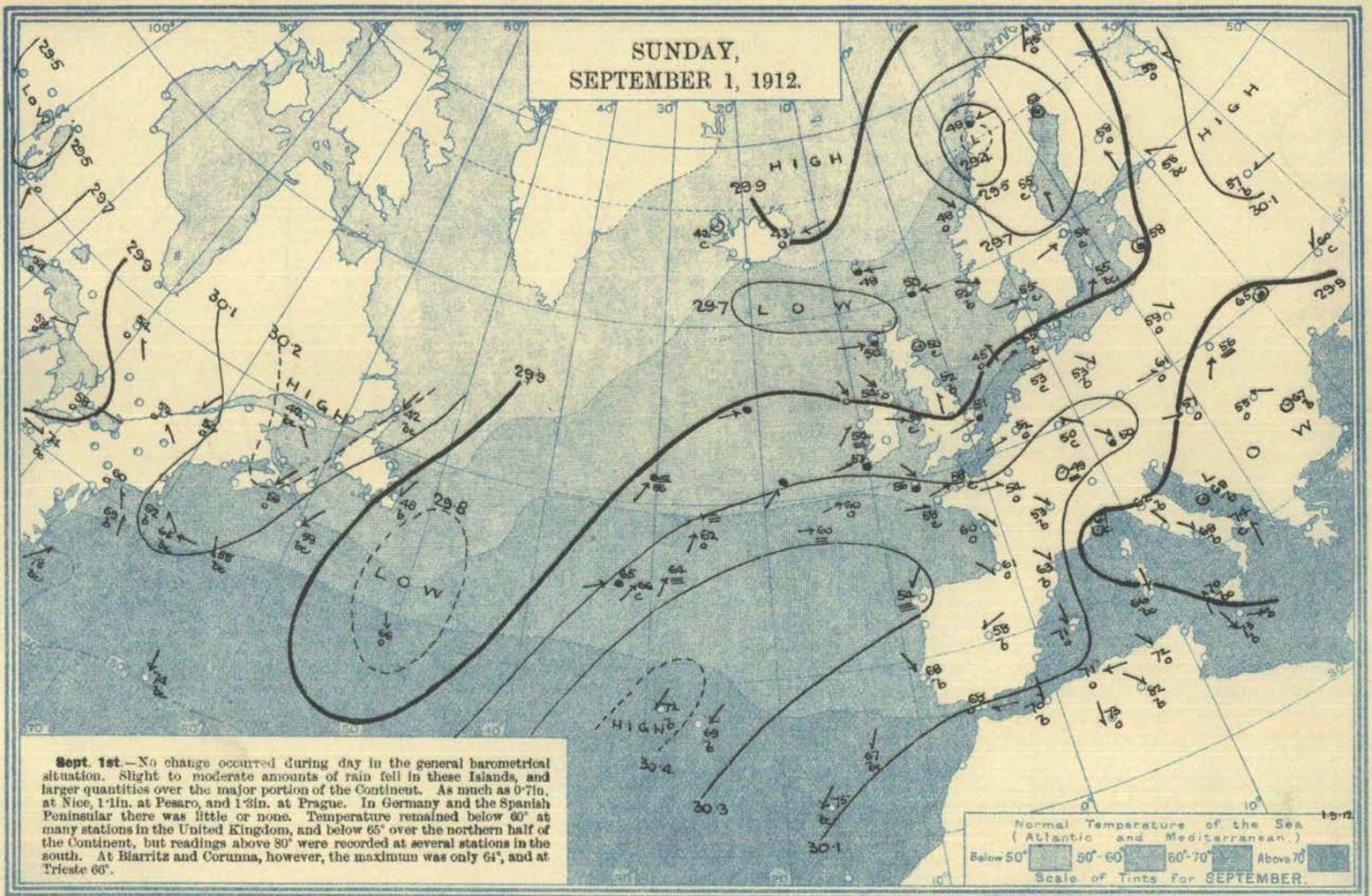
THE YEAR.—Aggregates, &c., for the Period of 36 Weeks, December 31st, 1911, to September 7th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1539	− 94	427	−130	166	+ 1	32·93	+ 0·53	3·2	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1724	−132	519	−101	152	+15	21·76	+ 1·67	3·2	−1·1	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2065	+ 17	373	−102	148	+25	23·05	+ 6·99	3·5	−1·1	26	− 9
3. ENGLAND, EAST ...	91	14	*	*	*	*	2520	+150	274	−247	138	+19	20·69	+ 5·30	4·4	−0·6	33	− 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2301	− 37	373	−160	139	+21	25·61	+ 8·34	3·6	−0·9	27	− 7
5. ENGLAND, S.E.	88	13	*	*	*	*	2535	− 2	218	−163	131	+18	21·46	+ 4·78	4·5	−0·6	34	− 4
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1939	− 54	329	− 96	154	+11	31·94	+ 2·15	3·7	−0·7	28	− 6
7. ENGLAND, N.W. ...	84	7	*	*	*	*	2134	− 33	298	− 88	151	+20	27·05	+ 5·14	3·8	−0·7	29	− 5
8. ENGLAND, S.W.	88	9	*	*	*	*	2334	− 66	189	−112	158	+29	33·24	+ 9·88	3·9	−1·1	29	− 9
9. IRELAND, NORTH ...	75	15	*	*	*	*	1926	−154	237	−108	150	− 7	27·22	+ 2·58	3·5	−0·6	26	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2251	−136	167	− 92	175	+36	31·17	+ 5·28	3·5	−1·0	26	− 8
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2813	+100	44	− 65	156	+20	27·93	+ 8·69	5·0	−1·0	38	− 8

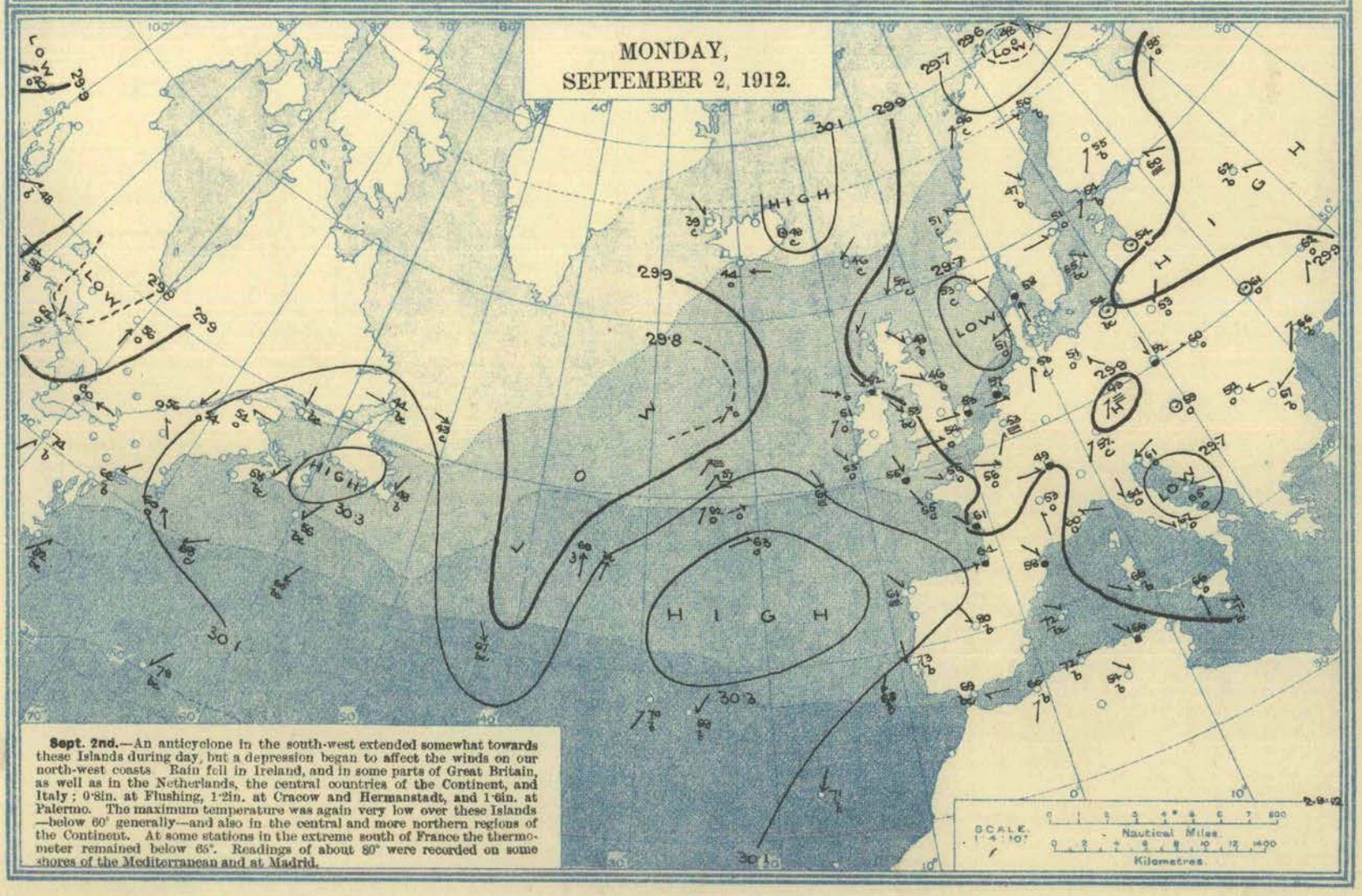
M.O., September 11, 1912.

NOTES ON TABLE IV.

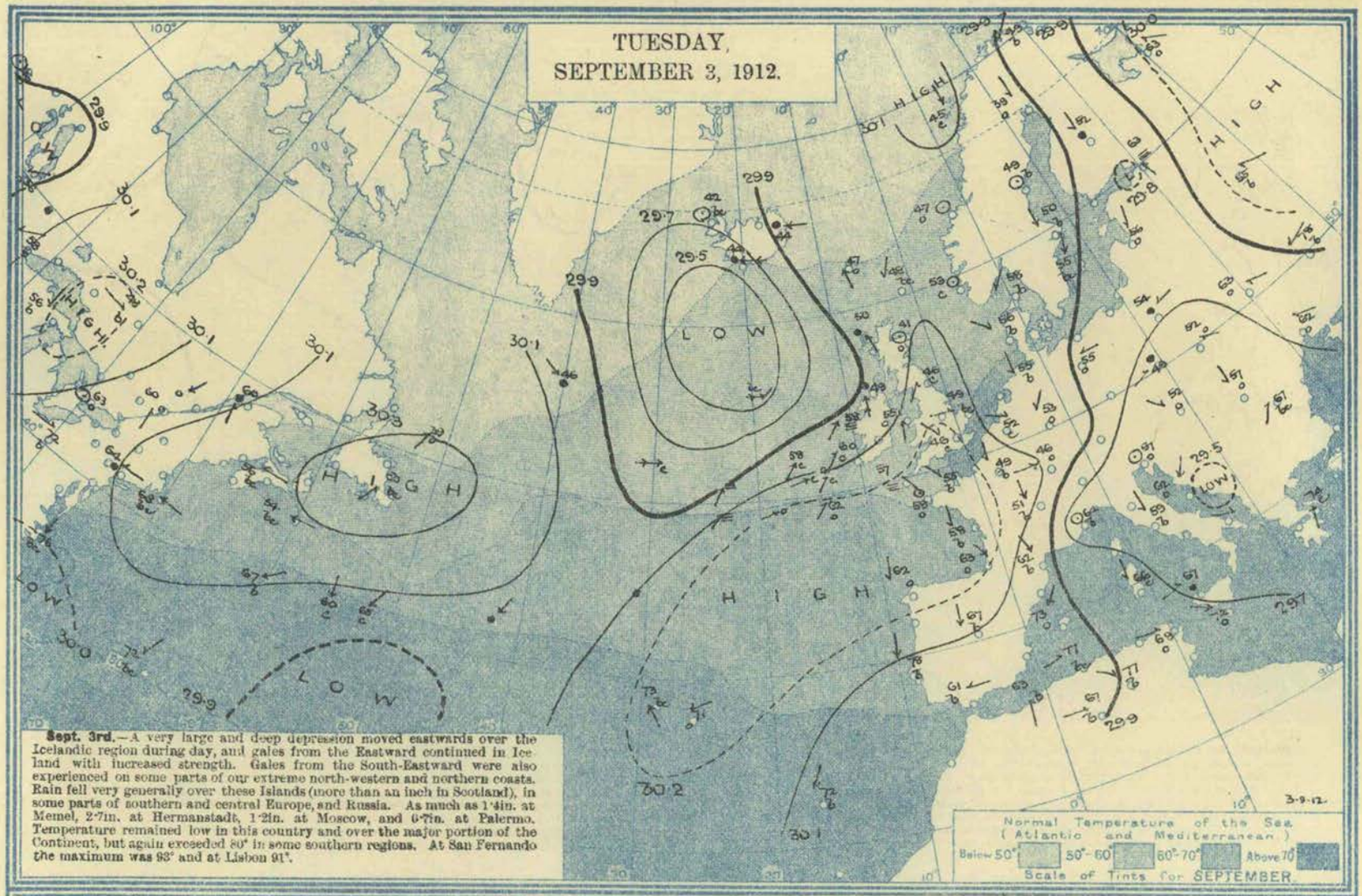
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



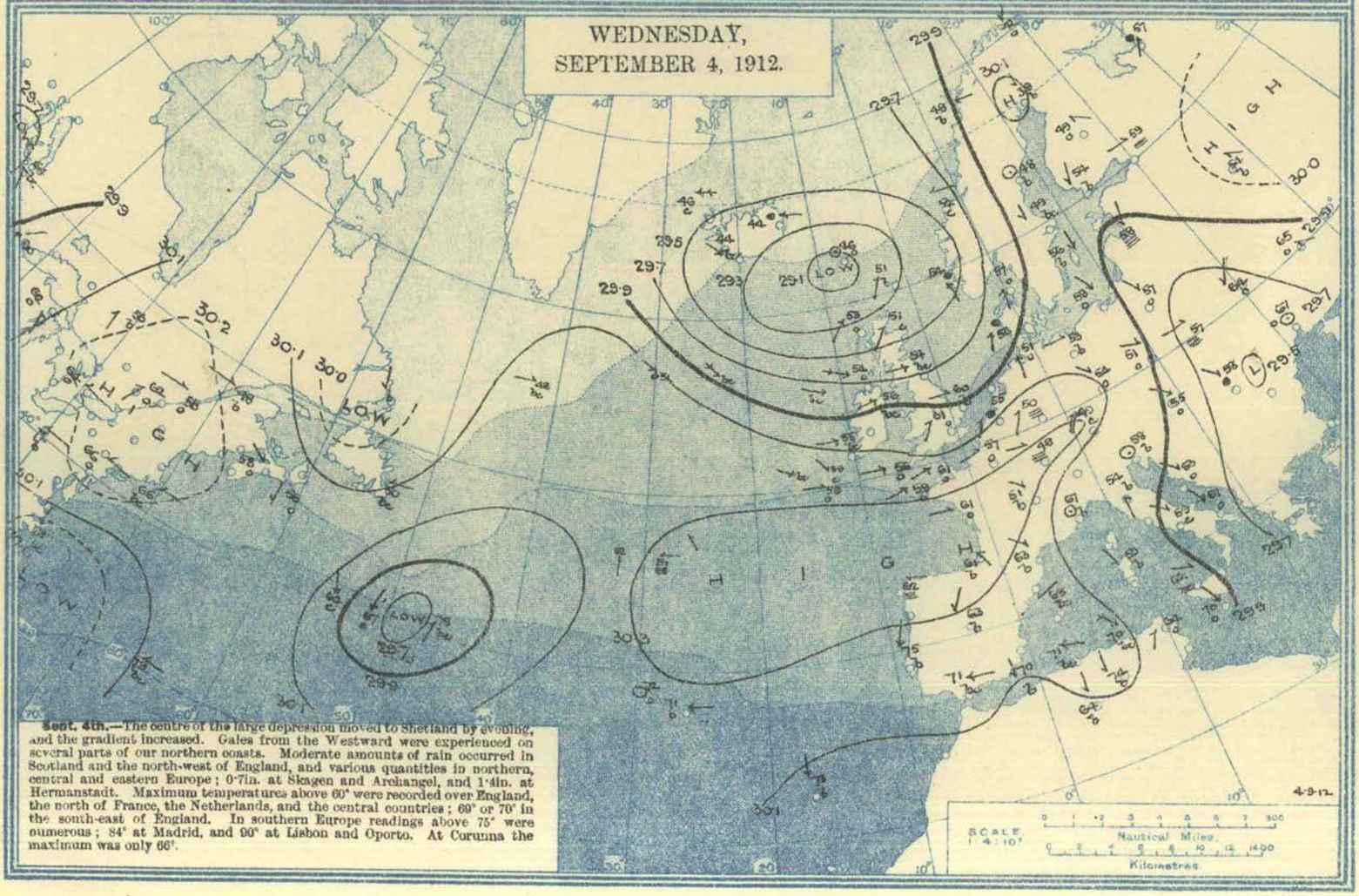
Sept. 1st.—No change occurred during day in the general barometrical situation. Slight to moderate amounts of rain fell in these Islands, and larger quantities over the major portion of the Continent. As much as 0·7in. at Nice, 1·1in. at Pesaro, and 1·3in. at Prague. In Germany and the Spanish Peninsular there was little or none. Temperature remained below 60° at many stations in the United Kingdom, and below 65° over the northern half of the Continent, but readings above 80° were recorded at several stations in the south. At Biarritz and Corunna, however, the maximum was only 64°, and at Trieste 66°.



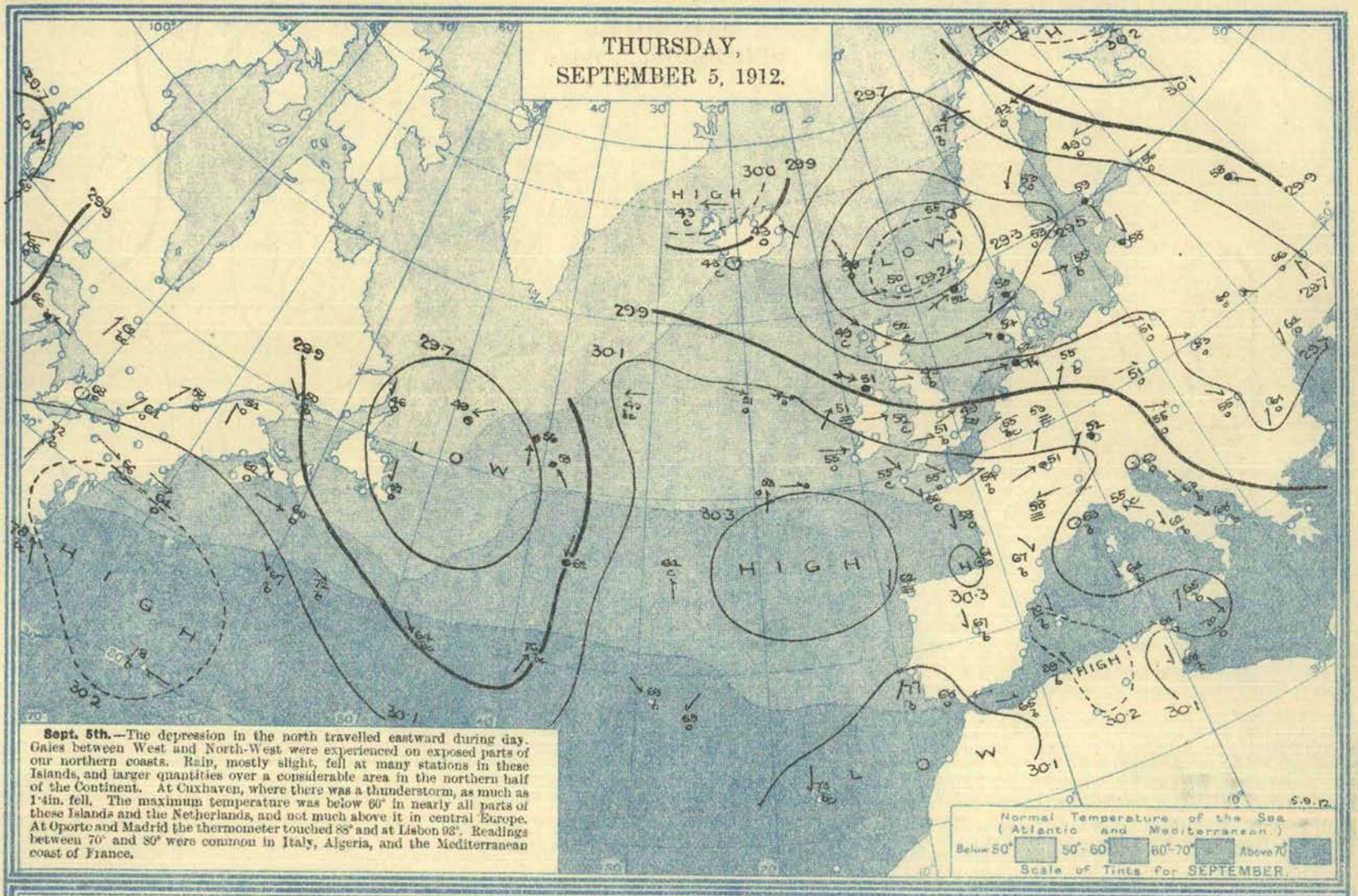
Sept. 2nd.—An anticyclone in the south-west extended somewhat towards these Islands during day, but a depression began to affect the winds on our north-west coasts. Rain fell in Ireland, and in some parts of Great Britain, as well as in the Netherlands, the central countries of the Continent, and Italy; 0·8in. at Flushing, 1·2in. at Cracow and Hermanstadt, and 1·6in. at Palermo. The maximum temperature was again very low over these Islands—below 60° generally—and also in the central and more northern regions of the Continent. At some stations in the extreme south of France the thermometer remained below 65°. Readings of about 80° were recorded on some shores of the Mediterranean and at Madrid.



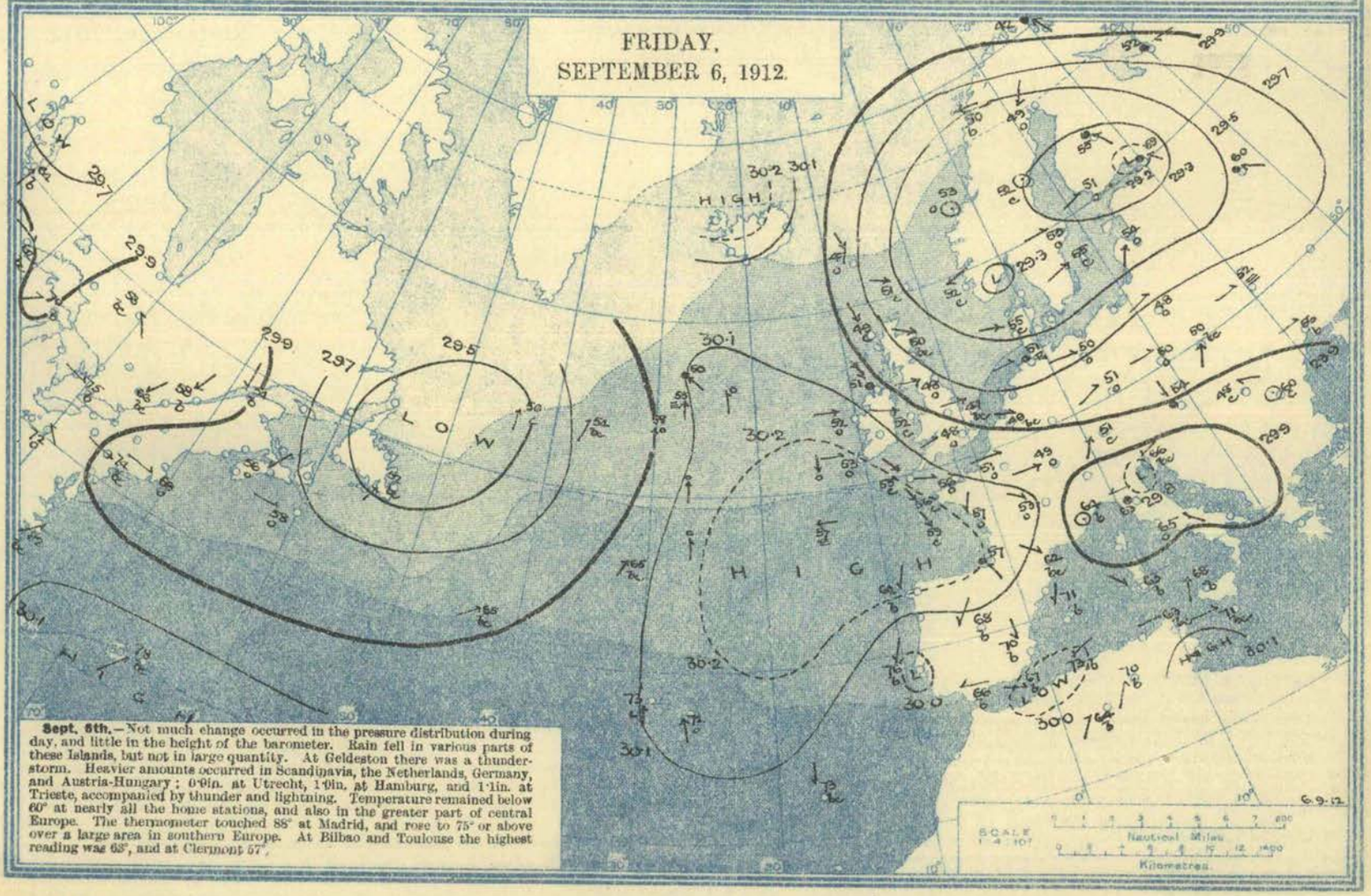
Sept. 3rd.—A very large and deep depression moved eastwards over the Icelandic region during day, and gales from the Eastward continued in Iceland with increased strength. Gales from the South-Eastward were also experienced on some parts of our extreme north-western and northern coasts. Rain fell very generally over these Islands (more than an inch in Scotland), in some parts of southern and central Europe, and Russia. As much as 1·4in. at Memel, 2·7in. at Hermanstadt, 1·2in. at Moscow, and 0·7in. at Palermo. Temperature remained low in this country and over the major portion of the Continent, but again exceeded 80° in some southern regions. At San Fernando the maximum was 93° and at Lisbon 91°.



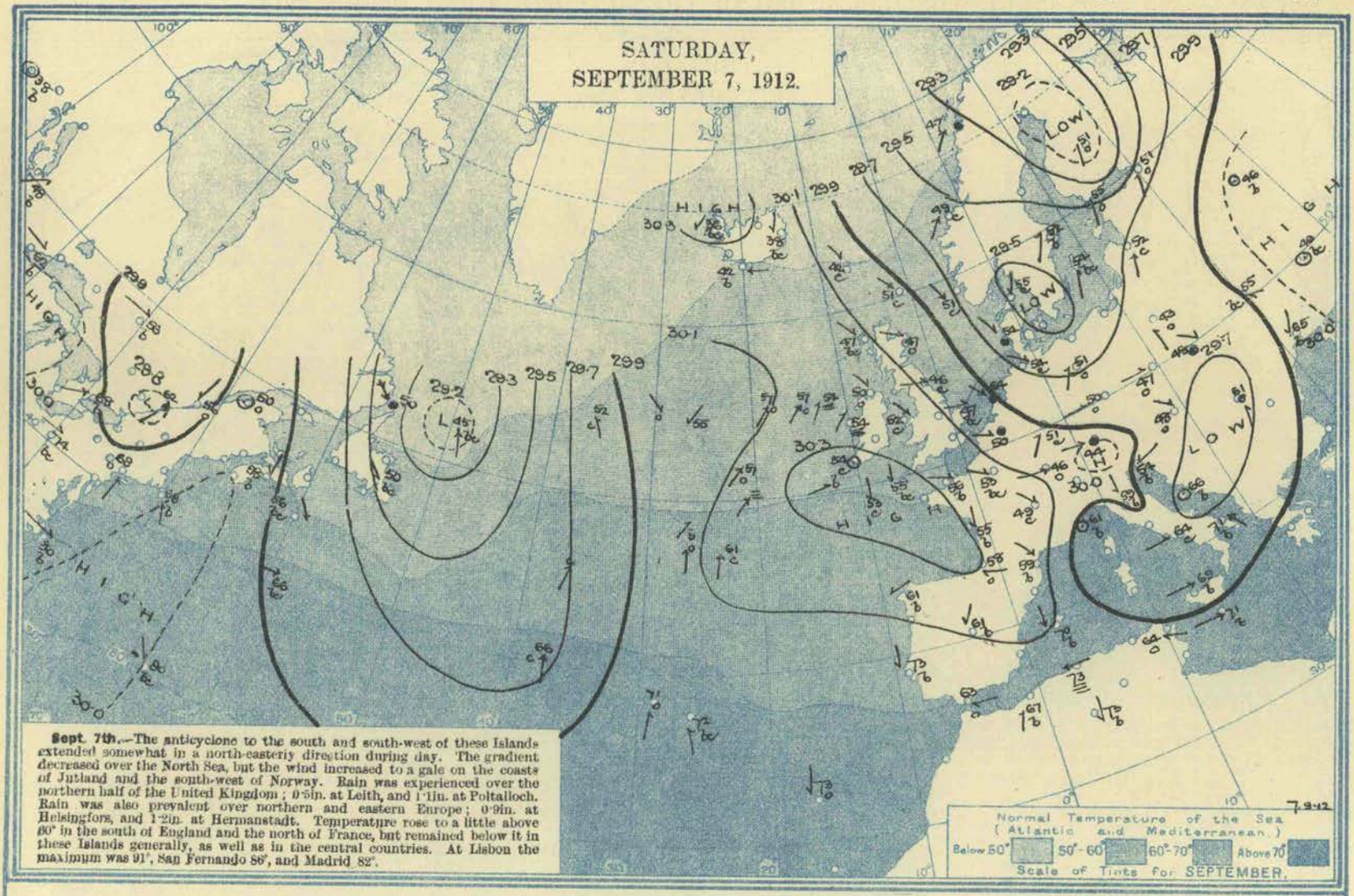
Sept. 4th.—The centre of the large depression moved to Shetland by evening, and the gradient increased. Gales from the Westward were experienced on several parts of our northern coasts. Moderate amounts of rain occurred in Scotland and the north-west of England, and various quantities in northern, central and eastern Europe; 0·7in. at Skagen and Archangel, and 1·4in. at Hermanstadt. Maximum temperatures above 60° were recorded over England, the north of France, the Netherlands, and the central countries; 69° or 70° in the south-east of England. In southern Europe readings above 75° were numerous; 84° at Madrid, and 90° at Lisbon and Oporto. At Coruuna the maximum was only 66°.



Sept. 5th.—The depression in the north travelled eastward during day. Gales between West and North-West were experienced on exposed parts of our northern coasts. Rain, mostly slight, fell at many stations in these Islands, and larger quantities over a considerable area in the northern half of the Continent. At Cuxhaven, where there was a thunderstorm, as much as 1·4in. fell. The maximum temperature was below 60° in nearly all parts of these Islands and the Netherlands, and not much above it in central Europe. At Oporto and Madrid the thermometer touched 88° and at Lisbon 93°. Readings between 70° and 80° were common in Italy, Algeria, and the Mediterranean coast of France.

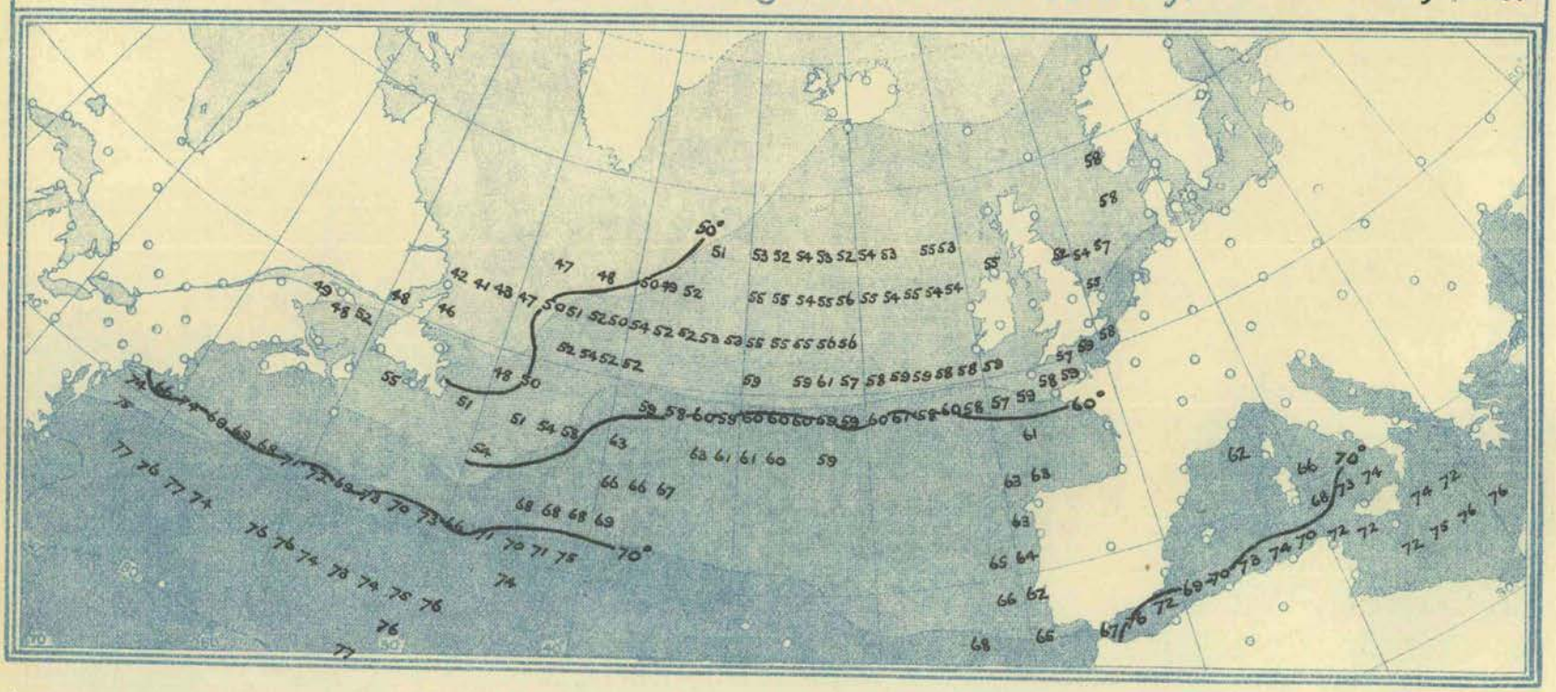


Sept. 6th.—Not much change occurred in the pressure distribution during day, and little in the height of the barometer. Rain fell in various parts of these Islands, but not in large quantity. At Geldeston there was a thunderstorm. Heavier amounts occurred in Scandinavia, the Netherlands, Germany, and Austria-Hungary; 0·9in. at Utrecht, 1·9in. at Hamburg, and 1·1in. at Trieste, accompanied by thunder and lightning. Temperature remained below 60° at nearly all the home stations, and also in the greater part of central Europe. The thermometer touched 88° at Madrid, and rose to 75° or above over a large area in southern Europe. At Bilbao and Toulouse the highest reading was 68°, and at Clermont 57°.



Sept. 7th.—The anticyclone to the south and south-west of these Islands extended somewhat in a north-easterly direction during day. The gradient decreased over the North Sea, but the wind increased to a gale on the coasts of Jutland and the south-west of Norway. Rain was experienced over the northern half of the United Kingdom; 0·5in. at Leith, and 1·1in. at Poltalloch. Rain was also prevalent over northern and eastern Europe; 0·9in. at Helsingfors, and 1·2in. at Hermanstadt. Temperature rose to a little above 80° in the south of England and the north of France, but remained below it in these Islands generally, as well as in the central countries. At Lisbon the maximum was 91°, San Fernando 86°, and Madrid 82°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 7TH SEPTEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 60° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 37. THIRTY-SEVENTH WEEK, SUNDAY, SEPTEMBER 8TH, TO SATURDAY, SEPTEMBER 14TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. Over the kingdom generally the weather was mostly dry, although seldom bright, but in the north-east and east of Great Britain rain was again experienced early in the week.

Temperature continued below the average, the divergence being 4° or more in all districts and as much as 6° in England South-East. The highest of the maxima were mostly recorded either on the 8th or 13th, and ranged from 69° in Scotland East and 68° in England North-East to 63 in England North-West and Ireland North. On the 9th and 10th maximum readings below 55° were recorded over a large portion of Great Britain; at some stations in the north of Scotland the thermometer did not reach 50°. The lowest of the minima, which occurred on various dates, ranged from 29° in Scotland West, and 30° in Scotland East to 41° in England East and to 43° in the Channel district. The lowest grass readings reported were 25° at Newton Rigg, 26° at Glasgow, and 27° at Burnley, Aspatria and Southport. The temperature of the soil continued below the normal at a depth of 1 foot, and also at 4 ft.

Mean Temperature of the Sea was very generally below the normal, and also lower than during the corresponding week of last year. The values ranged from 59° at Newquay and 57° at several other places in the south-west, south and south-east to 49° at Kirkwall and Burnmouth.

Rainfall exceeded the normal in Scotland East and England East, but was below it elsewhere, the fall being generally very slight. At many stations in the west, south and south-east the week was rainless.

Bright Sunshine was a little above the average in Ireland and Scotland North and West, much below it elsewhere. In all parts of England except the south-west the mean daily duration was less than 3 hours, and in the north-east, east and south-east districts it was less than half the average. The percentage of the possible duration ranged from 41 in Ireland South and 38 in Scotland West, to 19 in England East and the Midland Counties, and to 15 in England North-East.

Barometer and Wind. The greater part of the United Kingdom was under the influence of a large anticyclone, the centre of which sometimes lay to the south-westward of these Islands, and sometimes directly over this country or to the westward or north-westward. The north-eastern and eastern districts were, however, within the range of large cyclonic systems over Northern Europe, and about the middle of the week, when the centre of one of these disturbances moved south-westward to Heligoland Bay, the North-Westerly wind increased greatly in force over the North Sea region, and blew a gale at Lerwick and Spurn Head. On Thursday the high pressure system lay over Ireland and Scotland, but, as a large depression appeared over Iceland, it took up a position further to the southward, and at the end of the week was found over Ireland and the adjacent portion of the ocean. The main current of the wind over these Islands was between West and North and its velocity generally slight.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 147.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Light	Heavy	Moderate	Heavy	Light	Light	Light	Light	Light	Light	Light	Light
	Sunshine ...	Abundant	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Moderate	Very scanty	Scanty	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 2 weeks from Sept. 1st, 1912.	Warmth ...	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 2	0 * 1	0 * 2
	Rainfall ...	1 * 1	2 * 0	0 * 0	1 * 1	0 * 2	0 * 2	1 * 1	0 * 1	0 * 2	0 * 1	0 * 2	0 * 1
	Sunshine ...	1 * 1	0 * 2	0 * 1	0 * 1	0 * 1	0 * 1	0 * 1	0 * 2	0 * 2	0 * 1	0 * 1	0 * 2

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(26363—24.) Wt. 173—814. 450. 9/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
p Baltasound .. S	*53*	*13th*	*42*	*8th*	*50·9*	*44·8*	*47·7*	—	*40*	*0*	•	•	49·2	•	•	•	*6*	*0·36*	—	*1·4*	—	*11*	—	*Baltasound.*
a Islands .. *a Lerwick*	52	12, 13, 14	40	8th	50·3	44·4	47·2	– 3·6	35	0	•	•	•	•	•	•	5	0·32	—	1·5	– 2·2	12	-17	Deerness.
a Stornoway	59	12th	37	12th	54·1	41·3	47·4	– 4·6	41	2	•	•	•	•	•	•	3	0·09	– 0·92	5·3	+ 1·4	41	+11	Stornoway.
a Castlebay, Barra Isd.	*55*	*14th*	*44*	*9, 12*	*53·3*	*46·4*	*49·7*	– *3·3*	*54*	*0*	•	•	•	•	•	•	*2*	*0·07*	—	*5·1*	—	*39*	—	*Castlebay.*
a Wick	59	13th	37	12th	52·3	41·3	46·5	– 5·6	34	2	•	•	•	•	•	•	4	0·16	– 0·44	•	•	•	•	
b, Mainland. *p* Strathpeffer ..	63	12th	37	12th	56·3	42·9	49·3	– 3·0	51	0	•	•	•	•	•	•	0	0·00	– 0·57	5·1	+ 1·2	39	+ 9	Strathpeffer.
p Glencarron ..	59	12th	35	12th	53·7	41·2	47·2	– 3·9	36	0	•	•	•	•	•	•	5	0·30	– 1·62	•	•	•	•	
p Fort Augustus..	65	14th	34	12th	56·9	42·4	49·3	– 3·6	51	0	•	•	•	•	•	•	1	0·01	– 0·89	5·1	+ 2·3	39	+18	Fort Augustus.
p Fort William ..	61	12, 14	35	9th	57·1	42·1	49·2	– 4·2	50	0	•	•	•	•	•	•	1	0·02	– 1·63	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle.. S	62	12th	37	12th	54·6	43·0	48·5	– 5·0	46	0	1	28	51·7	-2·6	52·8	-1·9	—	—	—	2·9	—	22	—	Crathes S.
a Nairn	63	12th	33	12th	56·4	40·0	47·8	– 5·3	49	6	•	•	•	•	•	•	5	0·18	– 0·42	*1·9*	—	*15*	—	*Gordon Castle.*
a Aberdeen ..	59	13, 14	40	9, 13	54·0	42·7	48·1	– 5·1	43	0	•	•	•	•	•	•	2	0·03	– 0·47	3·1	—	24	—	Nairn.
a Balmoral	68	12th	31	12th	57·9	38·1	47·5	– 2·4	55	11	2	27	•	•	•	•	4	0·09	– 0·48	3·1	– 1·1	24	– 9	Aberdeen.
p Crieff	69	14th	36	12th	59·6	41·4	50·1	– 3·8	59	2	•	•	•	•	51·2	-1·6	3	0·18	– 0·48	•	•	•	•	Balmoral.
a Leith	65	14th	41	9, 10	57·1	44·6	50·6	– 4·4	60	0	•	•	•	•	•	•	1	0·03	– 0·72	3·7	—	29	—	Balruddery.
p West Linton ..	60	14th	30	9th	54·7	38·9	46·4	– 5·7	44	9	•	•	•	•	•	•	1	0·03	– 0·41	•	•	•	•	
p Marchmont ..	62	14th	32	8th	54·0	40·8	47·0	– 5·5	41	4	0	32	49·1	-4·2	•	•	1	0·01	—	*3·8*	—	*30*	—	*West Linton.*
																	1	0·07	– 0·56	2·7	– 1·3	21	-10	Marchmont.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	68	13th	39	13th	56·1	44·7	50·1	– 3·5	57	0	0	35	48·7	-3·8	51·5	-1·8	4	0·17	– 0·39	1·6	•	12	•	Cockle Park.
a Shields	62	13th	39	9th	54·6	42·6	48·3	– 6·3	44	0	•	•	•	•	•	•	6	0·39	– 0·05	•	•	•	•	*Newcastle.*
p Durham	68	13th	37	9, 13	56·0	43·0	49·2	– 5·2	50	0	0	34	•	•	•	•	2	0·27	– 0·18	1·7	– 2·3	13	-18	Durham.
a, North .. *p* Rounton	66	13th	37	9th	55·3	43·4	49·1	– 4·9	50	0	0	34	52·2	•	•	•	3	0·25	– 0·18	•	•	•	•	Rounton.
a West Witton	*63*	*13th*	*38*	*9th*	*57·1*	*44·1*	*50·3*	—	*58*	*0*	0	33	51·4	•	52·7	•	*3*	*0·26*	—	•	•	•	•	*West Witton.*
p Scarborough ..	66	13th	44	9th	56·9	46·9	51·7	– 3·9	68	0	•	•	•	•	56·0†	•	5	0·51	+ 0·05	1·9	—	15	—	Scarborough.
p York	67	13th	40	9th	57·0	45·7	51·1	– 4·7	64	0	•	•	54·5	-1·9	55·5	-0·7	1	0·18	– 0·24	2·1	– 2·0	16	-16	York.
a Spurn Head	63	13th	43	9th	56·0	45·9	50·7	– 6·1	61	0	0	36	52·7	-2·8	55·0	-0·9	5	0·87	+ 0·52	*1·4*	—	*11*	—	*Hull.*
b South .. *a* Lincoln	63	13th	40	9th	57·0	46·3	51·4	– 5·0	66	0	•	•	52·4	-4·2	55·0	-1·6	1	0·23	– 0·19	•	•	•	•	Lincoln.
a Fulbeck	62	13th	39	9th	57·4	45·0	50·9	– 5·5	62	0	0	36	54·8	-3·6	55·5	-2·1	4	0·38	– 0·05	2·4	—	19	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·1	—	16	—	Skegness.
3. ENGLAND, E.											0	42	55·4	-3·6	57·5	-1·3	—	—	—	*3·0*	—	*24*	—	*Lowestoft.*
p Cromer	59	8, 14	45	9–12	56·6	45·9	51·0	– 5·5	63	0	•	•	•	•	•	•	6	0·84	—	1·6	—	12	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	61	12th	45	11, 12	58·1	46·3	51·9	– 5·1	69	0	•	•	55·1	-4·1	57·9	-2·1	4	1·22	+ 0·75	3·0	—	24	—	Yarmouth.
a Norwich	62	12th	43	9, 13	57·9	45·9	51·6	– 5·4	67	0	0	37	55·1	•	•	•	5	0·89	—	*2·2*	—	*17*	—	*Norwich.*
p Geldeston	60	8, 12, 14	43	13th	58·3	46·1	51·9	– 4·7	69	0	•	•	54·5	-1·9	55·5	-0·7	5	0·66	+ 0·18	2·4	– 2·9	19	-23	Geldeston.
p Cambridge	63	8th	42	14th	59·0	45·0	51·7	– 5·6	68	0	6	35	55·3	-2·8	57·9	-0·8	3	0·43	0·00	2·9	– 2·2	23	-18	Cambridge.
a Felixstowe	*62*	*8th*	*44*	*9, 11*	*58·9*	*46·1*	*52·2*	– *5·5*	*71*	*0*	•	•	•	•	•	•	*3*	*0·19*	—	*3·0*	—	*24*	—	*Felixstowe.*
a Clacton-on-Sea ..	63	8th	45	10, 11, 12	58·0	45·9	51·7	– 5·8	68	0	0	40	55·0	-3·6	57·4	-1·7	3	0·28	—	2·3	—	18	—	Clacton.
b, South .. *a* Rothamsted ..	65	8th	41	10th	58·2	44·6	51·1	– 4·7	64	0	•	•	•	•	•	•	4	0·14	– 0·36	1·7	– 3·3	13	-26	Rothamsted.
a Shoeburyness	*65*	*8th*	*42*	*10th*	*58·7*	*46·1*	*52·1*	– *6·9*	*77*	*0*	0	39	56·1	-4·6	•	•	*4*	*0·28*	– *0·14*	*2·4*	—	*19*	—	*Southend.*
p Tottenham	65	8th	44	10th	59·4	47·4	53·1	– 4·5	78	0	0	35	•	•	58·8	-1·7	0	0·00	—	3·1	—	24	—	Tottenham.
4. MIDLAND COUNTIES.											0	31	52·8	-2·9	54·1	-1·5	—	—	—	*2·0*	—	*16*	—	*Huddersfield.*
a Harrogate	65	13th	38	9th	55·1	44·3	49·4	– 4·7	52	0	0	33	52·1	-2·6	53·4	-0·8	1	0·32	– 0·26	2·5	—	19	—	Harrogate.
a Bawtry	63	13th	40	9th	56·9	45·4	50·9	– 4·6	62	0	0	35	53·8	•	54·8	•	1	0·19	– 0·20	2·2	– 1·9	17	-15	Worksop.
p Buxton	*58*	*13th*	*36*	*9, 11*	*52·3*	*43·4*	*47·6*	– *5·0*	*39*	*0*	2	29	51·8	-2·5	52·2	-2·2	5	*0·54*	– *0·33*	*1·6*	—	*12*	—	*Buxton.*
a East .. *a* Nottingham	61	13, 14	42	9th	56·6	45·3	50·7	– 5·2	61	0	0	35	53·0	-2·6	55·8	-1·6	1	0·10	– 0·36	1·8	—	14	—	Nottingham.
p Birmingham, Edgbsn.	61	8th	43	9, 10, 11	55·6	46·3	50·7	– 5·1	61	0	1	28	50·6	-3·0	52·5	-1·0	2	0·18	– 0·30	1·1	—	9	—	Birmingham.
a Raunds	64	14th	39	10th	59·0	44·6	51·5	– 4·5	67	0	0	38	55·4	•	57·1	•	1	0·07	—	•	•	•	•	Raunds.
a Oxford	66	8th	41	10th	58·4	45·1	51·4	– 5·3	66	0	0	•	•	•	•	•	1	0·03	– 0·40	2·4	– 2·6	19	-20	Oxford.
											0	35	53·0	-2·6	54·4	-1·9	—	—	—	2·2	—	17	—	Sheffield.
a Cheadle	58	13th	37	8, 10	54·4	42·0	47·9	– 6·3	41	0	1	29	•	•	•	•	1	0·50	– 0·12	•	•	•	•	Cheadle.
p Shrewsbury ..	61	8, 13, 14	37	13th	57·7	43·6	50·3	– 5·9	58	0	0	34	•	•	•	•	1	0·08	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	64	14th	37	13th	57·0	43·6	50·0	– 6·1	56	0	0	33	•	•	•	•	3	0·08	– 0·38	•	•	•	•	Hereford.
a Cirencester ..	65	8th	39	10th	57·6	43·4	50·2	– 4·8	57	0	0	37	54·1	•	55·2	•	2	0·02	– 0·54	3·3	– 1·5	26	-12	Cirencester.
a Bath	66	8th	41	11, 13	60·7	44·7	52·3	– 4·8	72	0	•	•	•	•	•	•	0	0·00	– 0·56	3·5	—	28	—	Bath.
5. ENGLAND, S.E.											0	35	56·2	-2·1	58·0	-1·3	—	—	—	•	•	•	•	Canterbury.
p Kew	66	8th	42	10th	59·0	46·6	52·5	– 4·3	74	0	0	32	55·8	-2·0	57·0	-0·7	2	0·02	– 0·47	2·3	– 2·6	18	-20	Kew.
a Marlborough	66	8th	36	10, 14	58·4	41·6	49·6	– 5·2	55	1	0	33	54·6	•	55·5	•	1	0·05	– 0·49	2·2	– 2·3	17	-18	Marlborough
a Margate	62	8th	45	11th	58·0	48·3	52·9	– 5·8	76	0	•	•	55·3	-2·9	56·6	-1·7	4	0·45	– 0·01	1·7	– 3·4	13	-27	Margate.
a Wisley, Surrey ..	66	8th	39	10th	58·9	45·0	51·6	– 6·0	67	0	0	33	55·7	-2·4	57·4	-1·5	0	0·00	—	2·3	—	18	—	Wisley
a Swarraton	64	8th	38	10th	57·7	44·6	50·8	– 4·9	62	0	0	38	57·4	-2·0	58·9	-0·9	0	0·00	– 0·55	3·5	—	28	—	Worthing.
a Tunbridge Wells ..	66	8th	38	10th	59·0	44·1	51·2	– 5·4	64	0	0	36	55·6	-3·0	•	•	1	0·03	– 0·51	3·0	– 2·4	24	-19	Tunbridge Wells.
a Dungeness	66	8th	38	10th	59·7	43·4	51·2	– 7·5	64	0	•	•	•	•	•	•	0	0·00	– 0·49	2·1	—	17	—	Littlestone.
p Hastings..	66	8th	40	10th	59·7	46·1	52·6	– 5·9	74	0	0	37	57·0	•	59·2	•	1	0·02	– 0·59	*1·7*	– *4·0*	*13*	-32	*Hastings.*
p Southampton	67	8th	41	10th	60·7	47·0	53·5	– 5·2	81	0	0	37	•	•	•	•	1	0·02	– 0·52	3·5	– 2·0	28	-16	Southampton.
a Ventnor	67	8th	43	10th	61·0	48·0	54·2	– 5·5	85	0	•	•	•	•	•	•	1	0·01	– 0·59	3·7	– 2·2	29	-17	Ventnor.
											0	39	56·6	-3·0	58·6	-1·8	—	—	—	*2·9*	—	*23*	—	*Portsmouth.*
											•	•	57·7	•	59·2	•	—	—	—	2·1	– 3·6	17	-28	Eastbourne.
											•	•	56·4	•	57·9	•	—	—	—	*3·7*	—	*29*	—	*Bournemouth.*
LONDON.											0	38	•	•	59·6	•	—	—	—	*2·7*	– *3·0*	*21*	-24	*Brighton.*
a Westminster	*67*	*8th*	*43*	*10th*	*60·3*	*47·6*	*53·7*	– *3·9*	*82*	*0*	0	40	•	•	•	•	*1*	*0·01*	– *0·44*	*1·6*	– *2·6*	*13*	-20	*Westminster.*
a Greenwich	*67*	*8th*	*43*	*13, 14*	*60·0*	*46·0*	*52·7*	– *5·5*	*75*	*0*	0	32	•	•	•	•	*1*	*0·02*	– *0·43*	*1·9*	– *3·5*	*15*	-27	*Greenwich.*
a Hampstead	*64*	*8th*	*36*	*10th*	*57·6*	*44·7*	*50·8*	—	*62*	*0*	1	26	•	•	•	•	*2*	*0·03*	—	*2·4*	—	*19*	—	*Hampstead.*
a Camden Square ..	*68*	*8th*	*42*	*10, 13*	*61·3*	*46·0*	*53·3*	—	*79*	*0*	0	39	•	•	•	•	*1*	*0·01*	—	*2·2*	—	*17*	—	*Camden Square*
6. *a*, SCOTLAND, W.																							
a Poltalloch .. S	57	8, 11, 14	33	9th	55·6	43·4	49·2	– 5·2	50	0	•	•	•	•	•	•	2	0·14	– 0·99	•	•	•	•	
p Glasgow	60	11, 14	37	9, 11	56·6	42·9	49·4	– 4·0	52	0	3	26	•	•	•	•	3	0·02	– 0·75	4·6	+ 1·1	36	+ 9	Glasgow.
p Rothesay	64	11th	38	9th	59·4	43·7	51·2	– 3·0	64	0	•	•	•	•	53·1	-0·8	2	0·09	– 0·93	•	•	•	•	
a Kilmarnock ..	60	11, 12, 14	29	11th	57·3	39·3	47·9	– 5·7	53	8	•	•	•	•	•	•	3	0·07	—	*4·4*	—	*34*	—	*Kilmarnock.*
a Colmonell ..	61	12th	32	11th	56·9	40·4	48·3	– 6·4	51	4	1	29	•	•	•	•	1	0·02	– 0·91	•	•	•	•	
p Dumfries ..	62	14th	35	11th	57·4	41·4	49·0	– 5·9	52	2	1	29	52·0	•	54·9	•	1	0·14	– 0·58	*4·5*	—	*35*	—	*Dumfries.*
p Cally, Gatehouse	63	14th	32	11th	59·3	39·4	48·9	– 4·1	59	7	•	•	•	•	•	•	0	0·00	– 0·93	•	•	•	•	
b I. OF MAN.																							
p Douglas	59	13, 14	41	11th	55·9	45·6	50·5	– 3·9	60	0	0	38	•	•	•	•	2	0·06	– 0·84	5·3	+ 0·4	41	+ 3	Douglas.
7. *a*, ENGLAND, N.W.											2	27	51·8	-1·8	53·5	-0·9	—	—	—	*1·7*	—	*13*	—	*Burnley.*
p Aspatria	63	14th	33	11th	56·9	41·4	48·8	– 5·1	50	2	0	37	•	•	•	•	—	—	—	2·8	—	22	—	Hoylake.
p Newton Rigg ..	63	13th	33	9, 11	55·3	41·1	47·9	– 4·5	45	3	2	27	52·6	•	53·6	•	1	0·12	– 0·76	2·2	—	17	—	Aspatria.
p Stonyhurst	58	13, 14	35	9th	55·0	44·3	49·4	– 5·1	52	0	2	25	52·4	-3·2	53·2	-1·6	2	0·16	– 0·52	3·2	– 2·0	17	-16	Newton Rigg.
p Blackpool	59	13th	37	11th	55·6	45·1	50·1	– 5·7	57	0	1	29	•	•	•	•	1	0·13	– 0·87	2·1	– 2·2	16	-17	Stonyhurst.
p Manchester (Whit. Pk.)	*61*	*13th*	*42*	*9, 11*	*56·0*	*48·3*	*52·0*	—	*70*	*0*	1	28	53·7	•	54·7	•	2	0·07	– 0·67	2·6	– 1·8	20	-14	Blackpool.
a Liverpool (Bidston) ..	58	13th	43	9, 11	54·7	46·6	50·5	– 5·1	60	0	0	31	•	•	•	•	2	0·23	—	*1·4*	—	*11*	—	*Whit. Park.*
a Hawarden Bridge ..	60	13th	44	9, 10	56·1	49·3	52·5	– 4·3	74	0	0	37	•	•	•	•	2	0·17	– 0·45	*2·6*	—	*20*	—	*Liverpool.*
											2	27	54·2	-3·2	56·6	-2·0	2	0·05	– 0·41	2·7	– *1·8*	*21*	-14	*Southport.*
b, NORTH WALES.											0	34	53·2	-3·0	56·5	-1·3	—	—	—	*1·4*	—	*11*	—	*Manchester City)*
p Llandudno	59	8, 13	46	9, 10	56·1	49·3	52·5	– 4·3	74	0	•	•	•	•	•	•	3	0·35	– 0·20	2·6	– 1·8	20	-14	Llandudno.
a Holyhead	63	13th	47	10, 11	57·3	48·7	52·8	– 3·7	76	0	•	•	•	•	•	•	2	0·05	– 0·60	3·1	—	24	—	Aberdovey.
p Bettws-y-Coed ..	62	14th	40	11th	59·1	44·3	51·3	– 4·8	65	0	0	39	52·3	-1·4	54·0	-0·3	2	0·10	—	2·8	—	22	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average								
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·5	—	20	—	Aberystwyth.
a Llangammarch Wells	61	8, 13	33	10th	56·9	41·0	48·6	– 5·5	50	3	1	30	52·7	–2·8	53·8	–1·4	2	0·04	—	2·5	—	20	—	Llangammarch
a Pembroke	60	9, 12	47	13, 14	58·6	49·3	53·7	– 3·1	82	0	*	*	°	*	°	°	0	0·00	– 0·68	3·6	– 1·5	24	–12	Pembroke.[Wells
p Cardiff	66	14th	40	10th	59·6	45·6	52·3	– 4·3	72	0	0	37	55·1	–1·9	56·5	–1·6	0	0·00	– 0·84	*4·4*	—	*35*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	64	8, 14	42	10th	60·0	46·7	53·0	– 4·6	77	0	0	37	*	*	*	*	0	0·00	– 0·63	*4·1*	—	*32*	—	*Clifton.*
a Shaftesbury	62	13, 14	39	10, 11	58·0	43·0	50·1	– 5·9	57	0	*	*	54·8	*	56·7	*	1	0·02	– 0·62	*	*	*	*	Shaftesbury.
a Arlington	63	8th	40	11th	58·3	45·4	51·5	– 3·9	67	0	*	*	57·3	*	*	*	0	0·00	– 1·07	4·4	– 1·0	35	– 8	Newquay.
a Cullompton	67	14th	37	11th	62·1	44·7	53·0	– 3·4	77	0	0	34	56·9	*	*	*	1	0·03	– 0·57	2·8	– 2·2	22	–17	Cullompton.
a Portland	63	12th	46	10, 11	59·3	49·6	54·2	– 4·5	85	0	*	*	*	*	*	*	0	0·00	—	*4·4*	—	*35*	—	*Weymouth.*
p Plymouth	66	14th	45	10, 11	61·3	47·6	54·1	– 3·7	85	0	0	36	56·9	–2·1	*	*	0	0·00	– 0·63	4·5	– 0·9	35	– 7	Plymouth.
p Falmouth	62	8th	48	9, 10	58·9	49·9	54·2	– 3·5	85	0	*	*	*	*	*	*	0	0·00	– 0·78	5·7	+ 0·1	45	+ 1	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	56	8, 12	43	9th	53·6	47·4	50·4	– 4·4	59	0	*	*	*	*	*	*	2	0·10	– 0·62	*	*	*	*	* *
a Blacksod Point ..	58	8, 14	42	13th	55·9	47·1	51·3	– 3·6	65	0	*	*	*	*	*	*	1	0·06	– 0·91	*	*	*	*	* *
p Markree Castle ..	63	12th	35	12, 13	58·7	42·3	50·1	– 3·8	57	0	0	31	55·1	*	55·0	*	3	0·20	– 0·66	5·5	+ 1·8	43	+14	Markree Castle.
a Birr Castle	63	13th	35	12, 13	59·9	39·4	49·2	– 5·4	61	7	*	*	*	*	*	*	0	0·00	– 0·60	*5·0*	+ *0·7*	*39*	+ *6*	*Birr Castle.*
b, East .. *p* Armagh	63	8, 14	39	9th	58·9	44·3	51·3	– 2·8	65	0	0	31	55·0	–1·7	55·2	–1·3	2	0·02	– 0·63	3·3	– 0·6	26	– 5	Armagh.
a Donaghadee	62	8th	44	13th	57·9	46·4	51·9	– 3·2	69	0	*	*	*	*	*	*	0	0·00	– 0·65	*	*	*	*	* *
10. IRELAND, S.											0	36	55·1	–2·0	55·1	–1·9	—	—	—	*	*	*	*	Trinity Coll.
a, East .. *p* Dublin, City	64	8th	43	13th	59·0	47·1	52·8	– 3·4	76	0	0	31	*	*	*	*	—	—	—	3·1	– 1·7	24	–14	Phœnix Park.
a Kilkenny	65	13th	38	13th	59·4	43·4	51·0	– 4·2	63	0	0	40	*	*	*	*	0	0·00	– 0·52	*	*	*	*	Dublin City.
a Waterford	64	8, 13	38	13th	59·9	43·3	51·2	– 4·6	64	0	*	*	*	*	*	*	1	0·02	– 0·58	*	*	*	*	* *
											*	*	*	*	*	*	1	0·02	– 0·68	*	*	*	*	* *
a Birr Castle	63	13th	35	12, 13	59·9	39·4	49·2	– 5·4	61	7	*	*	*	*	*	*	0	0·00	– 0·60	5·0	+ 0·7	39	+ 6	Birr Castle.
a Foynes	59	8, 11, 12	40	12th	57·3	46·0	51·4	– 4·4	66	0	*	*	*	*	*	*	3	0·09	– 0·61	*	*	*	*	* *
a Cahir	64	13th	36	13th	61·0	43·0	51·6	– 3·7	67	0	*	*	*	*	*	*	2	0·10	—	*	*	*	*	* *
b, West .. *a* Killarney	66	12, 13	38	11th	63·5	44·1	53·3	– 2·3	79	0	*	*	*	*	*	*	1	0·05	– 0·87	*	*	*	*	* *
a Valencia	62	9th	40	13, 14	58·7	45·1	51·6	– 5·1	67	0	*	*	*	*	*	*	2	0·03	– 0·97	6·2	+ 1·8	49	+14	Valencia.
a Roche's Point	64	8, 14	43	10th	61·0	46·7	53·5	– 3·2	81	0	*	*	*	*	*	*	1	0·02	– 0·69	6·8	—	54	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	62	8, 13	44	12th	59·3	50·3	54·6	– 4·2	88	0	*	*	*	*	*	*	0	0·00	– 0·60	5·1	– 0·7	40	– 6	Scilly.
a Jersey, St. Aubins ..	64	8, 13, 14	43	10th	61·9	50·6	56·0	– 4·7	98	0	*	*	*	*	*	*	1	0·03	– 0·59	3·5	– 2·8	28	–22	St. Heliers.
a Guernsey (Villa Carey)	66	13th	46	10th	61·1	51·1	55·9	– 4·1	97	0	0	39	58·7	–2·7	59·9	–1·5	1	0·04	– 0·66	4·1	– 2·0	32	–16	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·8 hrs. 22 °/₀; Ramsgate, 2·2 hrs. 17 °/₀; Rhyl, 2·6 hrs. 20 °/₀; Salcombe, 5·1 hrs. 40 °/₀; Tenby, 4·1 hrs. (–1·1) 32 °/₀ (– 9 °/₀); Torquay, 4·8 hrs. (–0·7) 38 °/₀ (– 6 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, September 14th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	51	51	51·0	–0·8	SCOTLAND, W. ..	Lamlash	55	51	53·0	–2·1
	Kirkwall	51	47	49·2	–3·8		Ballantrae	58	52	55·1	+0·2
	Wick	52	51	51·6	–1·0	ENGLAND, N.W. ..	Port Erin	57	54	55·6	–0·5
SCOTLAND, E. ..	Cromarty	53	50	51·5	–2·9	ENGLAND, S.W. ..	Newquay	59	58	58·7	–1·7
	Pennan Bay	53	52	53·0	–0·8		Scilly	57	56	56·7	—
	Aberdeen, Cove Bay	53	52	52·5	–0·7		Plymouth‡	57	56	56·8	–2·5
ENGLAND, N.E. ..	Burnmouth, Berwick	50	48	49·1	–3·8		Salcombe	58	57	57·6	–1·5
	Scarborough	55	50	52·1	–2·9	IRELAND, N.W. ..	Sheephaven	55	52	53·8	–3·7
ENGLAND, E. ..	Shipwash Lightship	59	56	56·7	–4·2		Teelin	56	54	55·4	–2·5
	Margate‡	57	54	56·0	–5·1	IRELAND, S.W. ..	Cleggan	56	54	54·7	–1·1
ENGLAND, S.E. ..	Eastbourne‡	59	56	57·1	–4·1		Seafield	59	54	56·5	–2·2
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881–1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881–1905.

THIRTY-SEVENTH WEEK—September 8th to September 14th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	65	34	54·4	42·2	48·0	− 4·6	42	− 32	0	0	3	− 1	0·13	−0·78	4·3	+0·6	33	+ 5
Eastern.																		
1. SCOTLAND, EAST ...	69	30	56·0	41·2	48·3	− 4·9	47	− 33	2	+ 1	2	− 1	0·78	+0·34	3·1	−1·1	24	− 9
2. ENGLAND, N.E.	68	37	56·3	44·8	50·3	− 4·7	58	− 34	0	0	3	0	0·36	−0·10	2·0	−2·8	15	−22
3. ENGLAND, EAST ...	65	41	58·2	45·9	51·8	− 5·0	69	− 35	0	0	3	+ 1	0·56	+0·17	2·4	−2·8	19	−22
4. MIDLAND COUNTIES ...	66	37	57·2	44·4	50·5	− 5·2	60	− 36	0	0	1	− 1	0·14	−0·26	2·4	−2·3	19	−18
5. ENGLAND, S.E.	67	36	59·2	45·5	52·0	− 6·0	70	− 42	0	0	1	− 1	0·06	−0·38	2·6	−2·8	21	−22
Western.																		
6. SCOTLAND, WEST ...	64	29	57·3	42·0	49·3	− 4·5	51	− 34	0	0	2	− 2	0·07	−0·71	5·0	+0·4	38	+ 3
7. ENGLAND, N.W.	63	33	56·2	45·6	50·6	− 5·1	60	− 36	0	0	2	− 1	0·13	−0·44	2·6	−2·1	20	−16
8. ENGLAND, S.W.	67	33	59·3	46·3	52·5	− 4·4	74	− 30	0	0	1	− 1	0·01	−0·56	3·7	−1·4	29	−11
9. IRELAND, NORTH ...	63	35	57·5	44·5	50·7	− 4·0	61	− 28	0	0	1	− 2	0·06	−0·55	4·4	+0·4	34	+ 3
10. IRELAND, SOUTH ...	66	35	60·0	44·2	51·7	− 4·2	68	− 29	0	0	1	− 2	0·04	−0·56	5·3	+0·6	41	+ 4
11. ENGLISH CHANNEL ...	66	43	60·8	50·7	55·5	− 4·1	95	− 28	0	0	1	− 2	0·02	−0·46	4·2	−2·3	33	−18

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 2 Weeks, September 1st to September 14th, 1912.

0. SCOTLAND, NORTH ...	65	34	*	*	*	*	95	− 58	0	0	9	0	2·41	+0·51	3·2	−0·4	23	− 4
Eastern.																		
1. SCOTLAND, EAST ...	69	30	*	*	*	*	102	− 64	2	+ 1	7	0	1·80	+0·84	2·9	−1·4	22	−11
2. ENGLAND, N.E.	68	37	*	*	*	*	132	− 58	0	0	7	+ 1	0·89	−0·17	3·3	−1·5	25	−11
3. ENGLAND, EAST ...	69	39	*	*	*	*	155	− 59	0	0	7	+ 2	0·78	−0·09	3·6	−1·7	28	−13
4. MIDLAND COUNTIES ...	66	37	*	*	*	*	137	− 61	0	0	4	− 1	0·34	−0·57	3·2	−1·5	25	−11
5. ENGLAND, S.E.	68	36	*	*	*	*	160	− 70	0	0	3	− 2	0·16	−0·85	3·7	−1·8	29	−14
Western.																		
6. SCOTLAND, WEST ...	64	29	*	*	*	*	127	− 48	0	0	8	+ 1	2·63	+0·91	4·1	−0·5	31	− 4
7. ENGLAND, N.W.	66	33	*	*	*	*	142	− 54	0	0	8	+ 2	1·09	−0·18	2·8	−1·8	21	−14
8. ENGLAND, S.W.	67	33	*	*	*	*	164	− 48	0	0	4	− 2	0·23	−1·05	3·9	−1·3	30	−10
9. IRELAND, NORTH ...	67	35	*	*	*	*	137	− 45	0	0	6	− 2	0·80	−0·59	3·2	−0·8	25	− 6
10. IRELAND, SOUTH ...	69	35	*	*	*	*	161	− 37	0	0	5	− 2	0·27	−1·04	3·7	−1·0	29	− 7
11. ENGLISH CHANNEL ...	66	43	*	*	*	*	201	− 49	0	0	4	− 2	0·24	−0·80	4·2	−2·3	33	−18

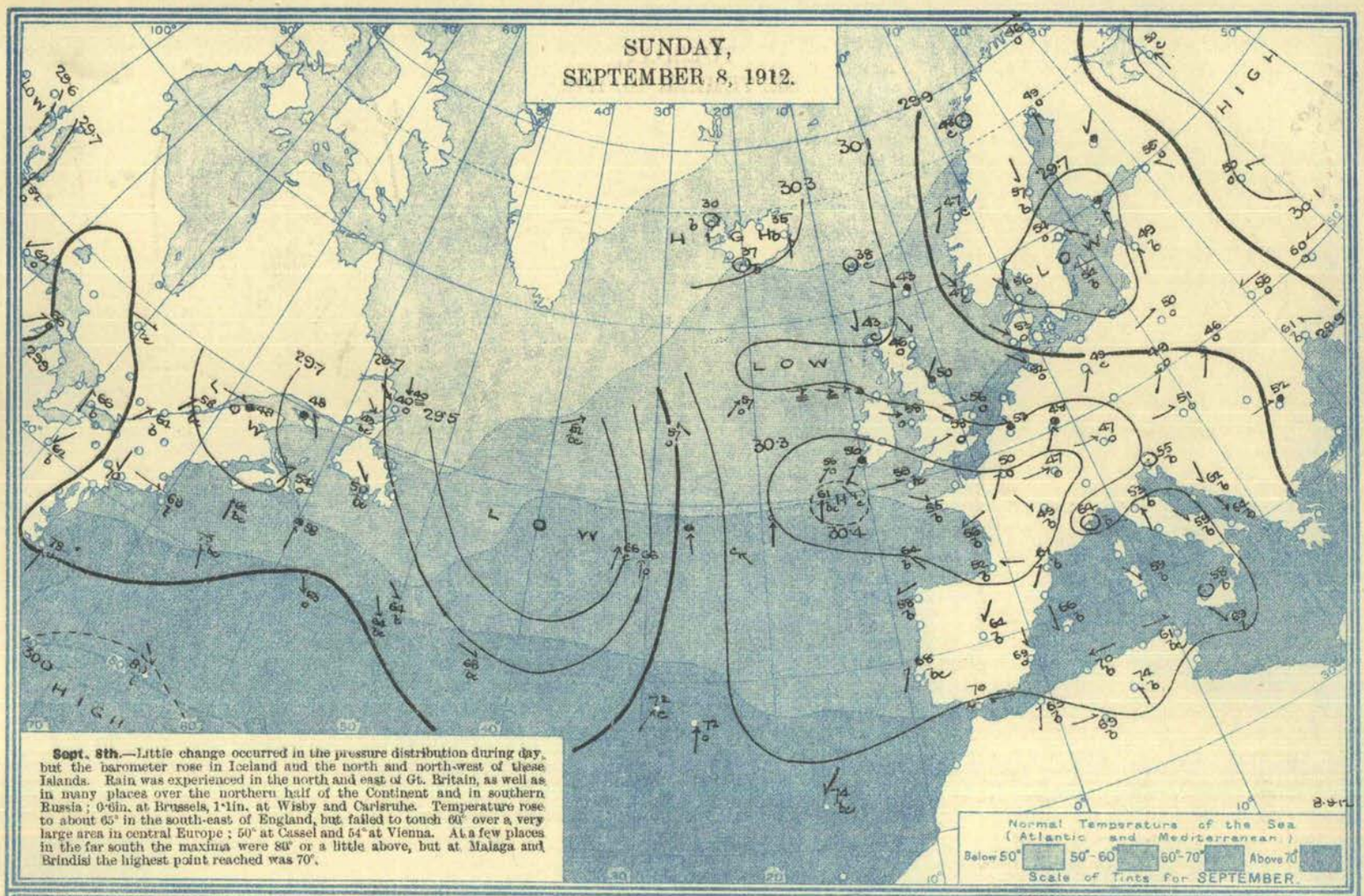
THE YEAR.—Aggregates, &c., for the Period of 37 Weeks, December 31st, 1911, to September 14th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1581	−126	427	−130	169	0	33·06	− 0·25	3·3	−0·3	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1771	−165	521	−100	154	+14	22·54	+ 2·01	3·2	−1·1	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2123	− 17	373	−102	151	+25	23·41	+ 6·89	3·5	−1·1	26	− 9
3. ENGLAND, EAST ...	91	14	*	*	*	*	2589	+115	274	−247	141	+20	21·25	+ 5·47	4·4	−0·6	33	− 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2361	− 73	373	−160	140	+20	25·75	+ 8·08	3·5	−1·0	27	− 7
5. ENGLAND, S.E.	88	13	*	*	*	*	2605	− 44	218	−163	132	+17	21·52	+ 4·40	4·5	−0·6	34	− 5
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	1990	− 88	329	− 96	156	+ 9	32·01	+ 1·44	3·7	−0·7	28	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2194	− 69	298	− 88	153	+19	27·18	+ 4·70	3·8	−0·7	28	− 6
8. ENGLAND, S.W.	88	9	*	*	*	*	2408	− 96	189	−112	159	+28	33·25	+ 9·32	3·9	−1·1	29	− 9
9. IRELAND, NORTH ...	75	15	*	*	*	*	1987	−182	237	−108	151	− 9	27·28	+ 2·03	3·5	−0·6	26	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2319	−165	167	− 92	176	+34	31·21	+ 4·72	3·5	−1·0	27	− 8
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	2908	+ 72	44	− 65	157	+18	27·95	+ 8·23	4·9	−1·1	38	− 8

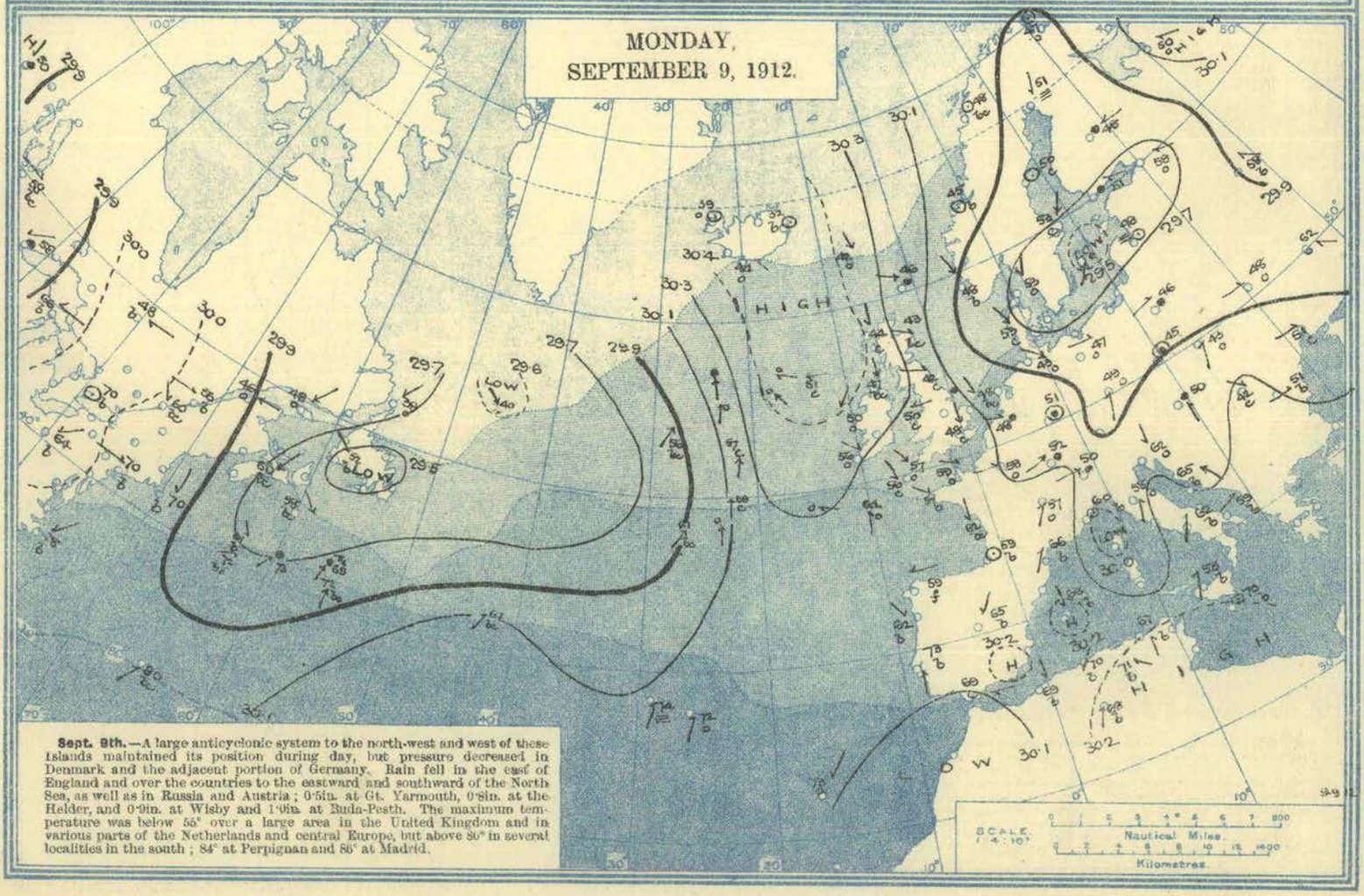
M.O., September 18, 1912.

NOTES ON TABLE IV.

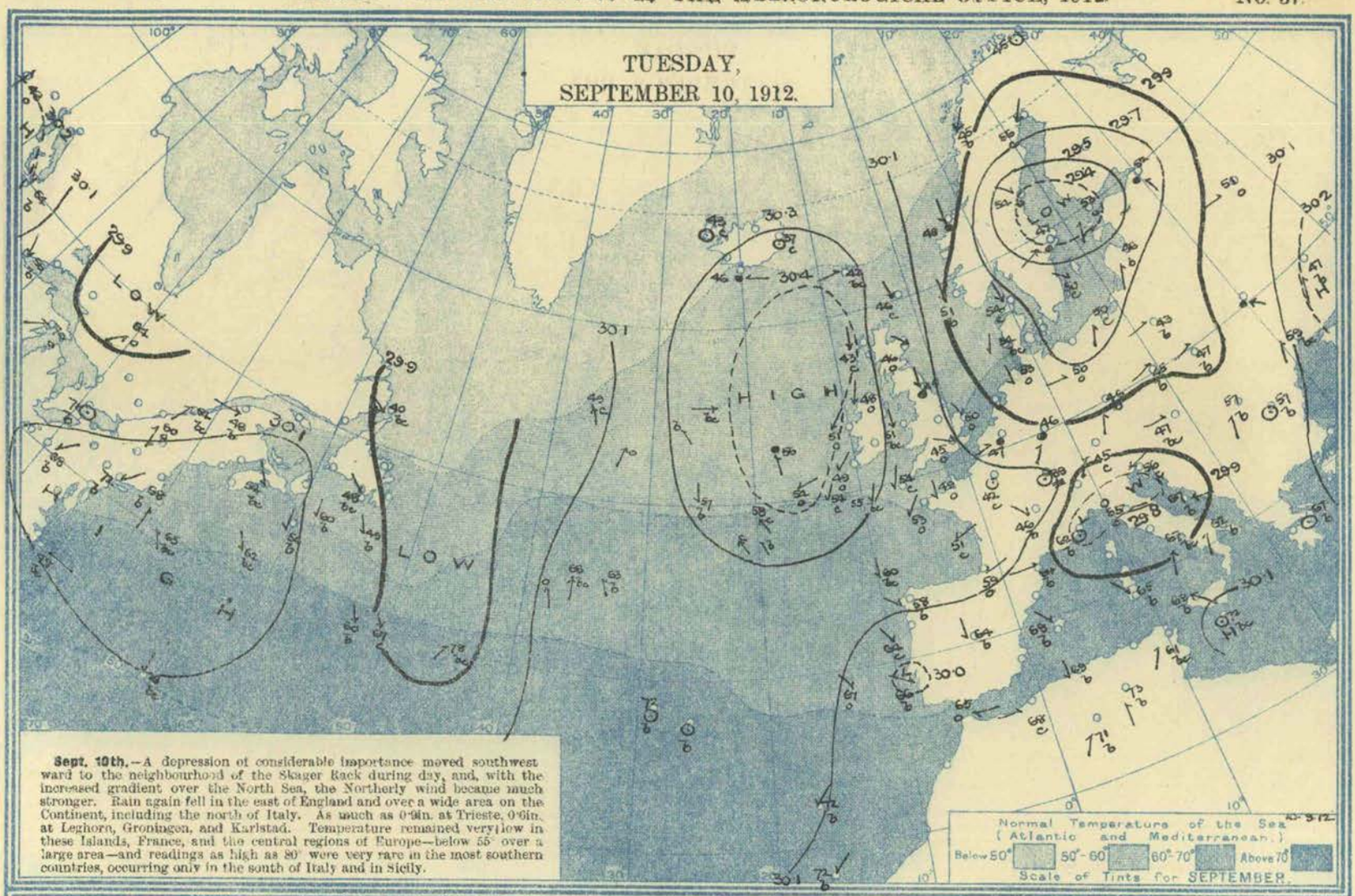
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



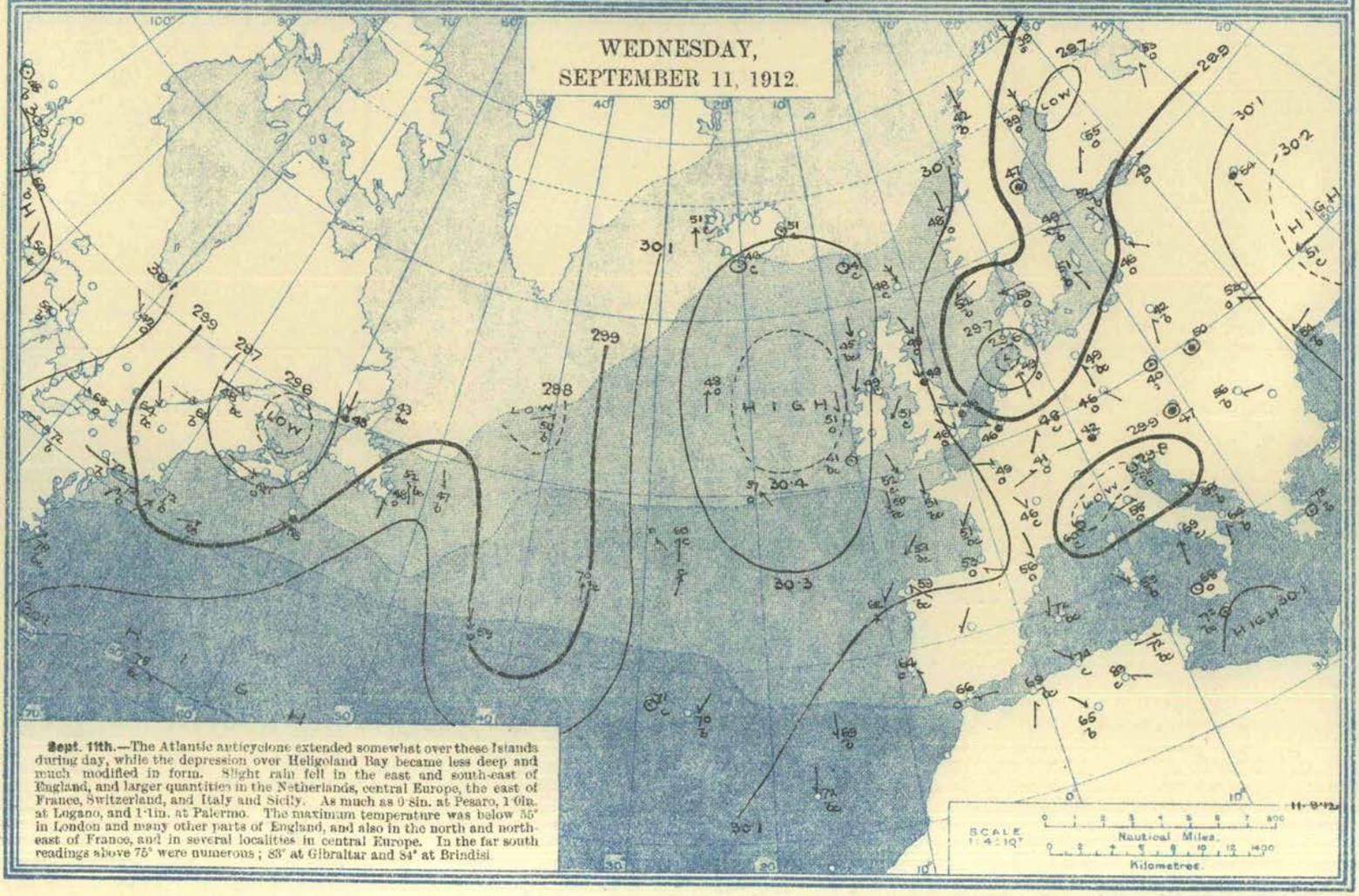
Sept. 8th.—Little change occurred in the pressure distribution during day, but the barometer rose in Iceland and the north and north-west of these Islands. Rain was experienced in the north and east of Gt. Britain, as well as in many places over the northern half of the Continent and in southern Russia; 0·6in. at Brussels, 1·1in. at Wisby and Carlsruhe. Temperature rose to about 65° in the south-east of England, but failed to touch 60° over a very large area in central Europe; 50° at Cassel and 54° at Vienna. At a few places in the far south the maxima were 80° or a little above, but at Malaga and Brindisi the highest point reached was 70°.



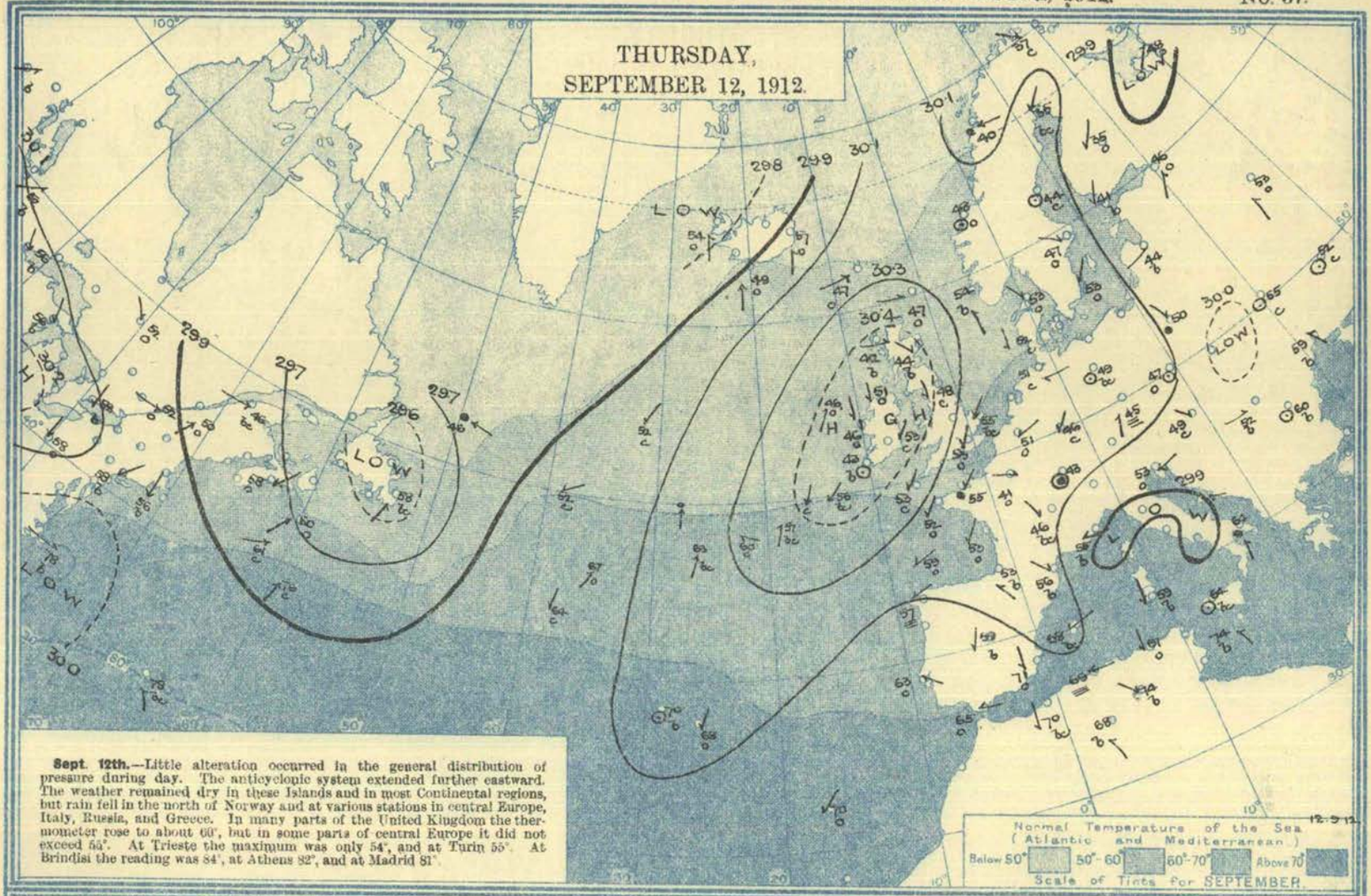
Sept. 9th.—A large anticyclonic system to the north-west and west of these Islands maintained its position during day, but pressure decreased in Denmark and the adjacent portion of Germany. Rain fell in the east of England and over the countries to the eastward and southward of the North Sea, as well as in Russia and Austria; 0·5in. at Gt. Yarmouth, 0·8in. at the Helder, and 0·9in. at Wisby and 1·0in. at Buda-Pesth. The maximum temperature was below 55° over a large area in the United Kingdom and in various parts of the Netherlands and central Europe, but above 80° in several localities in the south; 84° at Perpignan and 86° at Madrid.



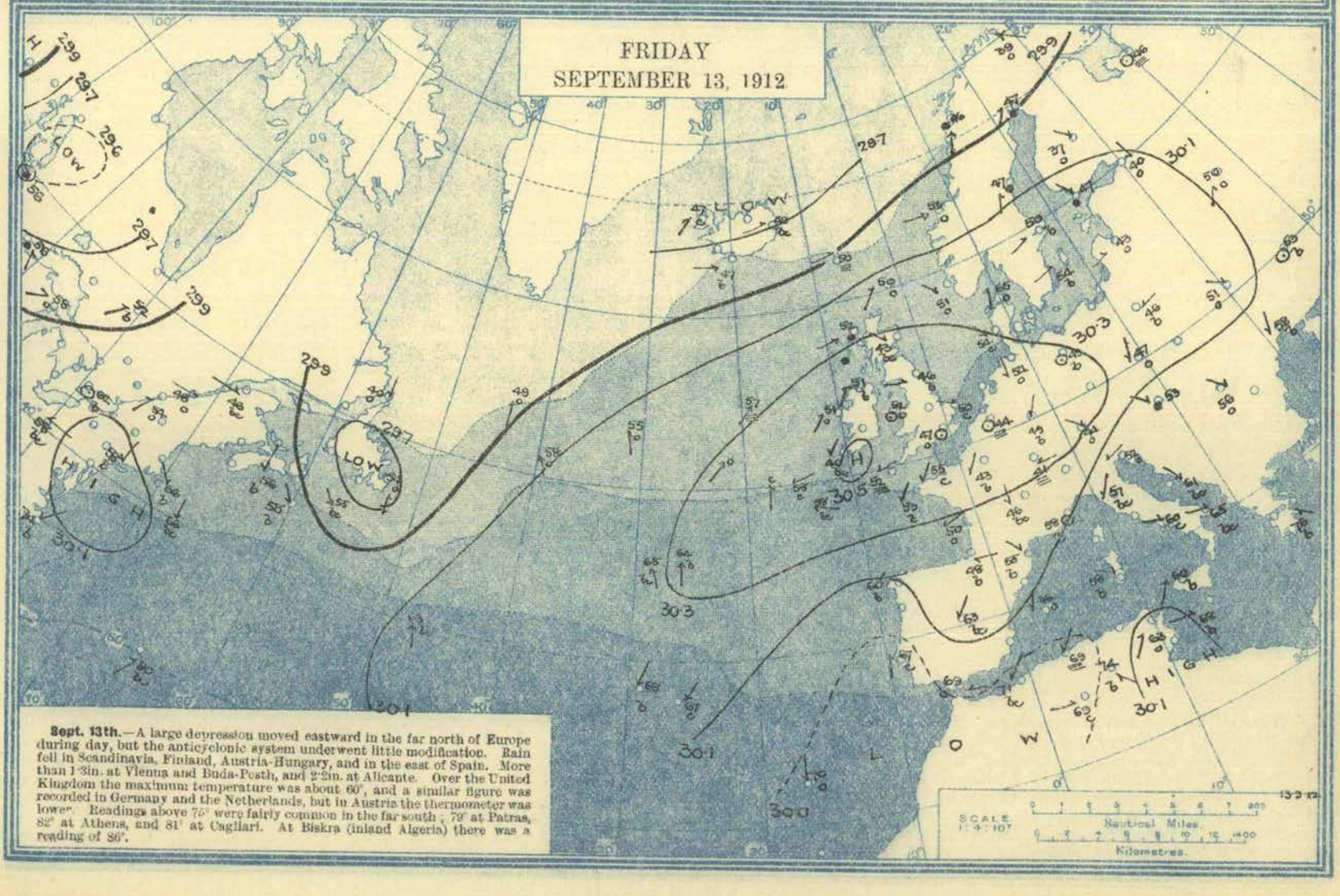
Sept. 10th.—A depression of considerable importance moved southwestward to the neighbourhood of the Skager Rack during day, and, with the increased gradient over the North Sea, the Northerly wind became much stronger. Rain again fell in the east of England and over a wide area on the Continent, including the north of Italy. As much as 0·9in. at Trieste, 0·6in. at Leghorn, Groningen, and Karlstad. Temperature remained very low in these Islands, France, and the central regions of Europe—below 55° over a large area—and readings as high as 80° were very rare in the most southern countries, occurring only in the south of Italy and in Sicily.



Sept. 11th.—The Atlantic anticyclone extended somewhat over these Islands during day, while the depression over Heligoland Bay became less deep and much modified in form. Slight rain fell in the east and south-east of England, and larger quantities in the Netherlands, central Europe, the east of France, Switzerland, and Italy and Sicily. As much as 0·8in. at Pesaro, 1·6in. at Lugano, and 1·1in. at Palermo. The maximum temperature was below 55° in London and many other parts of England, and also in the north and north-east of France, and in several localities in central Europe. In the far south readings above 75° were numerous; 83° at Gibraltar and 84° at Brindisi.



Sept. 12th.—Little alteration occurred in the general distribution of pressure during day. The anticyclonic system extended further eastward. The weather remained dry in these Islands and in most Continental regions, but rain fell in the north of Norway and at various stations in central Europe, Italy, Russia, and Greece. In many parts of the United Kingdom the thermometer rose to about 60°, but in some parts of central Europe it did not exceed 55°. At Trieste the maximum was only 54°, and at Turin 55°. At Brindisi the reading was 84°, at Athens 82°, and at Madrid 81°.



Sept. 13th.—A large depression moved eastward in the far north of Europe during day, but the anticyclonic system underwent little modification. Rain fell in Scandinavia, Finland, Austria-Hungary, and in the east of Spain. More than 1·3in. at Vienna and Buda-Pesth, and 2·2in. at Alicante. Over the United Kingdom the maximum temperature was about 60°, and a similar figure was recorded in Germany and the Netherlands, but in Austria the thermometer was lower. Readings above 75° were fairly common in the far south; 79° at Patras, 82° at Athens, and 81° at Cagliari. At Biskra (inland Algeria) there was a reading of 86°.

SATURDAY,
SEPTEMBER 14, 1912.

Sept. 14th.—No change of importance occurred in the general distribution of pressure, but a decrease took place over the Baltic and the surrounding regions. Slight rain fell in several parts of these Islands, and heavier amounts over a considerable area on the Continent; 0·6in. at Stockholm, Neu Fahrwasser and Vienna, as well as in Finland, Sicily, the south of Italy, and at Gibraltar. As a rule the maximum temperature was below the normal; below 60° at most places in central Europe and these Islands—only 52° at Vienna. At Cagliari and San Fernando the thermometer touched 79°, at Tunis 77°, and at Laghouat 88°.

Normal Temperature of the Sea
(Atlantic and Mediterranean)
Below 50° | 50°-60° | 60°-70° | Above 70°
Scale of Tints for SEPTEMBER.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 14TH. SEPTEMBER, 1912.

Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ☰ = fog; ● = rain; ▲ = hail; ✻ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,
AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) | No. 38. THIRTY-EIGHTH WEEK, SUNDAY, SEPTEMBER 15TH, TO SATURDAY, SEPTEMBER 21ST, 1912. | *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was rainless over nearly the whole of the United Kingdom, and in many districts, especially in Ireland and the western parts of Britain, the atmosphere was brighter than during the preceding weeks.

Temperature was again below the normal except in the north and east of Scotland, where it was slightly above. The highest of the maxima, which were recorded during the earlier half of the week, ranged from 72° in Scotland E., England S.W., and Ireland S. to 64° in England E. At various stations the maxima were below 60° on several days. The minima occurred as a rule in the latter half of the week, and were generally rather low for the time of the year. In Scotland E. (at Balmoral on the 21st) the thermometer fell to 31°, and elsewhere the lowest readings ranged from 35° in Scotland W., England N.W., S.E., and the Midland Counties to 40° in Ireland S. and to 49° in the English Channel. The lowest grass readings were 26° at Newton Rigg, 27° at Greenwich and Balmoral, and 28° at Kew, Wisley and West Linton. The temperature of the soil at a depth both of 1 foot and 4 feet was below the average, and also lower than in the corresponding week of last year.

Mean Temperature of the Sea. At nearly all stations the temperature was below the normal and also lower than in the corresponding week of last year. The mean for the week ranged from a trifle below 58° on our extreme south-west coasts to about 51° on the north and north-east coasts of Scotland, and to 50° at Burnmouth.

Rainfall. Over the greater part of England and in the west of Scotland there was no rain, and elsewhere only a few hundredths of an inch were recorded.

Bright Sunshine was below the normal over the eastern half of the Kingdom, but above it in the western section. The percentage of the possible duration ranged from 60 in the English Channel, and 47 in England S.W. to 24 in England E. and to 20 in Scotland N.

Barometer and Wind. Anticyclonic conditions prevailed throughout the week. During the early days the system extended from the Atlantic, and the main wind direction was between West and North-West, but by Thursday the area of highest pressure lay over our northern districts, and later on it passed on to the North Sea. The wind consequently shifted to some point between East and North except in the most northern and north-western districts (where there was a Southerly or South-Easterly breeze), and blew freshly or strongly on our southern and south-eastern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 151.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Deficient	Moderate	Deficient	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very light	Light	Light	Nought	Nought	Nought	Nought	Nought	Nought	Very light	Light	Nought
	Sunshine ...	Scanty	Moderate	Moderate	Scanty	Moderate	Scanty	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 3 weeks from Sept. 1st, 1912.	Warmth ...	0 * 2	0 * 2	0 * 2	0 * 3	0 * 2	0 * 3	0 * 2	0 * 3	0 * 2	0 * 2	0 * 1	0 * 2
	Rainfall ...	1 * 2	2 * 1	0 * 1	1 * 2	0 * 3	0 * 3	1 * 2	0 * 2	0 * 3	0 * 2	0 * 3	0 * 2
	Sunshine ...	1 * 2	0 * 2	0 * 1	0 * 2	0 * 1	0 * 2	0 * 1	1 * 2	1 * 2	1 * 1	0 * 1	1 * 2

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(26444—24.) Wt. 173—814. 450. 9/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*55*	*19, 20*	*44*	*17th*	*53·0*	*46·1*	*49·4*	—	*52*	*0*	•	•	50·1	•	•	•	*3*	*0·04*	—	*2·3*	—	*19*	—	*Baltasound.*
a Lerwick	55	19th	44	18th	52·6	47·0	49·7	- 0·3	54	0	•	•	•	•	•	•	2	0·07	—	2·5	- 1·1	20	- 9	Deerness.
a, Islands .. *a* Stornoway	60	20th	41	19th	57·1	46·0	51·3	+ 0·2	65	0	•	•	•	•	•	•	2	0·07	- 0·97	2·2	- 1·5	18	-12	Stornoway.
a Castlebay, Barra Isd.	*58*	*19th*	*46*	*19th*	*55·7*	*50·3*	*52·9*	+ *1·4*	*76*	*0*	•	•	•	•	•	•	*1*	*0·03*	—	*3·0*	—	*24*	—	*Castlebay.*
a Wick	58	16th	42	18th	54·6	47·1	50·7	- 0·6	61	0	•	•	•	•	•	•	3	0·08	- 0·53	•	•	•	•	
p Strathpeffer ..	63	19th	41	19th	58·4	47·6	52·7	+ 1·3	75	0	•	•	•	•	•	•	1	0·01	- 0·56	2·8	- 1·0	23	- 8	Strathpeffer.
b, Main- *p* Glencarron ..	59	18, 19, 20	41	19, 20	57·0	44·7	50·6	+ 0·4	60	0	•	•	•	•	•	•	2	0·14	- 1·85	•	•	•	•	
land. *p* Fort Augustus..	61	16, 19, 20	41	18, 19	59·9	45·0	52·1	+ 0·1	71	0	•	•	•	•	•	•	1	0·01	- 0·91	2·6	- 0·1	21	- 1	Fort Augustus.
p Fort William ..	65	18th	39	18th	60·4	44·7	52·2	- 0·4	71	0	•	•	•	•	•	•	0	0·00	- 1·69	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle..	63	19th	41	18th	59·4	46·6	52·7	+ 0·1	75	0	2	29	53·5	-0·4	52·4	-2·3	—	—	—	3·7	—	30	—	Crathes S.
a Nairn	61	16th	37	19th	59·1	45·1	51·8	- 0·1	69	0	•	•	•	•	•	•	2	0·15	- 0·45	*2·1*	—	*17*	—	*Gordon Castle.*
a Aberdeen ..	67	16th	43	19th	58·7	46·9	52·5	+ 0·1	74	0	•	•	•	•	•	•	1	0·10	- 0·40	3·4	—	28	—	
a Balmoral ..	67	16th	31	21st	59·9	40·0	49·5	+ 0·7	61	6	2	27	•	•	50·8	-1·5	1	0·20	- 0·38	3·2	- 0·8	26	- 7	Aberdeen.
p Crieff	72	16th	42	18th	63·7	45·1	54·0	+ 1·1	84	0	•	•	•	•	•	•	1	0·05	- 0·61	•	•	•	•	Balmoral.
a Leith	67	16th	46	21st	61·6	48·3	54·6	+ 0·6	88	0	•	•	•	•	•	•	0	0·00	- 0·74	3·0	—	24	—	Balruddery.
p West Linton ..	61	16th	35	21st	58·4	41·4	49·5	- 1·3	55	2	2	28	•	•	•	•	0	0·00	- 0·40	•	•	•	•	
p Marchmont ..	69	16th	39	19, 21	61·0	43·0	51·6	0·0	67	0	0	33	51·7	-1·1	•	•	0	0·00	—	*4·9*	—	*40*	—	*West Linton.*
																	0	0·00	- 0·63	5·2	+ 1·4	42	+12	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	70	16th	39	21st	60·4	44·1	51·9	- 0·4	69	0	0	33	52·2	+0·1	51·7	-1·1	1	0·01	- 0·57	4·9	•	40	•	Cockle Park.
a Shields	66	16th	43	21st	59·4	46·4	52·6	- 1·0	74	0	•	•	•	•	•	•	1	0·01	- 0·43	•	•	•	•	*Newcastle.*
p Durham	68	16th	41	21st	60·7	45·7	52·8	- 0·4	76	0	0	38	•	•	•	•	1	0·01	- 0·46	3·9	+ 0·1	32	+ 1	Durham.
a, North .. *p* Rounton	68	16th	36	21st	60·7	44·0	52·0	- 0·7	70	0	0	35	54·0	•	•	•	0	0·00	- 0·45	•	•	•	•	Rounton.
a West Witton	*66*	*17th*	*42*	*19th*	*59·4*	*46·6*	*52·7*	—	*75*	*0*	0	39	53·5	•	51·9	•	*0*	*0·00*	—	•	•	•	•	*West Witton.*
p Scarborough	68	16th	48	21st	59·9	49·6	54·5	- 0·2	88	0	•	•	•	•	55·4†	•	1	0·02	- 0·45	4·6	—	37	—	Scarborough.
p York	65	16, 17	40	21st	61·4	47·4	54·1	- 0·4	85	0	•	•	55·2	-0·5	55·0	-0·7	0	0·00	- 0·42	4·5	+ 0·6	37	+ 5	York.
a Spurn Head	63	16th	48	19, 20	59·1	49·6	54·1	- 1·8	85	0	0	33	54·0	-0·6	54·0	-1·4	0	0·00	- 0·35	*3·0*	—	*24*	—	*Hull.*
b South .. *a* Lincoln	66	16th	44	21st	60·9	48·6	54·5	- 0·4	88	0	•	•	53·9	-1·8	54·4	-1·6	1	0·01	- 0·40	•	•	•	•	Lincoln.
a Fulbeck	66	16th	42	18th	60·3	48·4	53·0	- 2·2	77	0	0	33	55·7	-1·3	54·9	-2·1	1	0·02	- 0·41	3·4	—	28	—	Rauceby.
											•	•	•	•	•	•	—	—	—	4·1	—	33	—	Skegness.
3. ENGLAND, E.											0	45	56·5	-1·4	57·0	-1·3	—	—	—	*3·5*	—	*29*	—	*Lowestoft.*
p Cromer	62	16th	47	19th	58·1	48·4	53·0	- 2·4	77	0	•	•	•	•	•	•	0	0·00	—	3·7	—	30	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	61	16th	49	19th	58·9	50·7	54·6	- 1·5	88	0	•	•	55·7	-2·3	57·0	-2·2	0	0·00	- 0·48	3·4	—	28	—	Yarmouth.
a Norwich	64	16th	43	21st	59·6	48·1	53·6	- 2·5	81	0	0	35	55·7	•	•	•	0	0·00	—	*3·3*	—	*27*	—	*Norwich.*
p Geldeston	62	16th	45	18th	59·0	47·9	53·2	- 2·7	78	0	•	•	•	•	•	•	0	0·00	- 0·50	2·6	- 2·4	21	-20	Geldeston.
p Cambridge	64	16th	40	18th	59·7	46·9	53·0	- 2·9	77	0	0	37	55·6	-1·6	57·0	-1·1	0	0·00	- 0·43	2·2	- 2·6	18	-22	Cambridge.
a Felixstowe	*63*	*15th*	*47*	*16, 18*	*59·1*	*49·6*	*54·1*	- *2·9*	*85*	*0*	•	•	•	•	•	•	*0*	*0·00*	—	*3·7*	—	*30*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	60	15, 16, 17	48	16th	58·9	49·7	54·1	- 2·4	85	0	0	40	55·7	-2·2	56·7	-1·9	0	0·00	—	3·1	—	25	—	Clacton.
a Rothamsted	62	16th	37	21st	58·9	45·9	52·1	- 2·5	71	0	•	•	•	•	•	•	0	0·00	- 0·50	2·4	- 2·3	20	-19	Rothamsted.
a Shoeburyness	*61*	*15th*	*47*	*18th*	*58·6*	*49·9*	*54·0*	- *3·7*	*84*	*0*	0	40	57·3	-2·6	•	•	*0*	*0·00*	- *0·44*	*3·1*	—	*25*	—	*Southend.*
p Tottenham	62	16, 18	42	21st	59·1	47·0	52·8	- 3·6	76	0	0	37	•	•	58·1	-1·6	0	0·00	—	3·3	—	27	—	Tottenham.
4. MIDLAND COUNTIES.											0	33	54·1	-0·5	53·6	-1·3	—	—	—	*3·7*	—	*30*	—	*Huddersfield.*
a Harrogate	63	17th	40	21st	58·3	46·1	51·9	- 1·1	69	0	0	33	53·2	-1·1	53·0	-0·6	1	0·01	- 0·57	4·7	—	38	—	Harrogate.
a Bawtry	62	15, 21	38	21st	60·7	47·0	53·5	- 0·9	81	0	0	33	55·0	•	54·5	•	0	0·00	- 0·39	3·0	- 0·8	24	- 7	Worksop.
p Buxton	*60*	*16th*	*39*	*19th*	*56·1*	*45·3*	*50·4*	- *0·9*	*59*	*0*	0	33	52·2	-1·0	51·9	-1·9	*0*	*0·00*	- *0·85*	*3·0*	—	*24*	—	*Buxton.*
a East .. *a* Nottingham	66	16th	40	21st	60·9	47·1	53·7	- 1·1	82	0	0	39	54·5	-0·4	55·2	-1·2	0	0·00	- 0·46	3·0	—	24	—	Nottingham.
p Birmingham, Edgbsn.	63	16th	42	21st	58·3	47·9	52·9	- 1·6	76	0	0	32	51·7	-1·4	52·2	-0·9	0	0·00	- 0·47	2·2	—	18	—	Birmingham.
a Raunds	68	16th	42	21st	62·0	47·6	54·5	- 0·3	88	0	0	38	55·6	•	56·3	•	0	0·00	—	•	•	•	•	Raunds.
a Oxford	64	18th	40	21st	59·6	46·6	52·8	- 2·5	76	0	0	—	•	•	•	•	0	0·00	- 0·43	3·2	- 1·5	26	-12	Oxford.
											0	36	54·0	-0·6	53·9	-1·8	—	—	—	3·4	—	28	—	Sheffield.
a Cheadle	65	15th	40	18, 21	59·0	44·3	51·3	- 1·9	65	0	2	36	•	•	•	•	0	0·00	- 0·62	•	•	•	•	Cheadle.
p Shrewsbury ..	65	15th	35	21st	60·4	43·7	51·7	- 3·4	68	0	0	32	•	•	•	•	0	0·00	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford ..	66	15th	38	21st	60·1	45·7	52·6	- 2·3	74	0	0	31	•	•	•	•	0	0·00	- 0·45	•	•	•	•	Hereford.
a Cirencester ..	64	15, 16	39	21st	59·3	45·7	52·2	- 2·2	71	0	0	38	54·1	•	54·9	•	0	0·00	- 0·55	4·3	- 0·2	35	- 1	Cirencester.
a Bath	70	16th	41	18, 21	62·9	47·3	54·7	- 1·6	89	0	•	•	57·4	-1·3	58·9	-0·8	0	0·00	- 0·56	4·9	—	40	—	Bath.
5. ENGLAND, S.E.											0	32	56·6	-0·7	57·2	-1·4	—	—	—	•	•	•	•	Canterbury.
p Kew	62	15.16	42	18th	59·1	49·0	53·8	- 1·9	83	0	1	28	55·7	-1·0	56·2	-0·9	0	0·00	- 0·49	2·7	- 1·8	22	-15	Kew.
a Marlborough	65	15th	35	21st	59·7	41·4	50·1	- 3·4	59	2	0	31	55·2	•	55·1	•	0	0·00	- 0·53	3·8	- 0·3	31	- 3	Marlborough.
a Margate	62	20th	48	21st	59·4	51·3	55·2	- 2·3	92	0	•	•	55·6	-1·7	56·0	-1·7	0	0·00	- 0·47	3·4	- 1·4	28	-12	Margate.
a Wisley, Surrey ..	63	16th	37	21st	59·7	47·1	53·1	- 3·2	78	0	1	28	55·9	-1·2	56·7	-1·5	0	0·00	—	3·2	—	26	—	Wisley
a Swarraton	63	16, 18	38	21st	59·7	43·4	51·2	- 3·2	64	0	0	39	57·9	-0·4	58·1	-1·0	1	0·01	- 0·54	4·3	—	35	—	Worthing.
a Tunbridge Wells ..	62	20th	42	21st	60·0	47·7	53·6	- 2·0	81	0	0	34	56·3	-1·2	•	•	0	0·00	- 0·56	4·1	- 1·0	33	- 8	Tunbridge Wells.
a Dungeness	64	15th	48	15, 16, 18	60·3	49·6	54·7	- 3·0	89	0	•	•	•	•	•	•	0	0·00	- 0·52	4·2	—	34	—	Littlestone.
p Hastings.. ..	63	15, 18	45	21st	60·4	49·4	54·6	- 2·8	88	0	0	41	57·9	•	58·2	•	0	0·00	- 0·65	*3·8*	- *1·6*	*31*	- *13*	*Hastings.*
p Southampton ..	65	16, 18	42	21st	61·6	47·6	54·3	- 3·0	86	0	0	38	•	•	•	•	0	0·00	- 0·55	4·0	- 1·1	33	- 9	Southampton.
a Ventnor	66	15th	50	19, 20, 21	62·0	52·3	56·9	- 1·9	104	0	•	•	•	•	•	•	0	0·00	- 0·62	4·7	- 0·8	38	- 7	Ventnor.
											0	41	57·0	-1·7	58·0	-1·7	—	—	—	*4·7*	—	*38*	—	*Portsmouth.*
											•	•	57·9	•	58·6	•	—	—	—	4·0	- 1·4	33	-12	Eastbourne.
											•	•	56·4	•	57·1	•	—	—	—	*5·1*	—	*42*	—	*Bournemouth.*
LONDON.											0	40	•	•	58·6	•	—	—	—	*4·3*	- *1·0*	*35*	- *9*	*Brighton.*
a Westminster	*63*	*15, 18*	*46*	*18th*	*60·6*	*50·7*	*55·4*	- *1·1*	*94*	*0*	0	41	•	•	•	•	*0*	*0·00*	- *0·46*	*2·6*	- *1·1*	*21*	- *9*	*Westminster.*
a Greenwich	*63*	*15, 16*	*41*	*21st*	*60·6*	*48·6*	*54·3*	- *2·6*	*86*	*0*	1	27	•	•	•	•	*0*	*0·00*	- *0·45*	*2·7*	- *2·3*	*22*	- *19*	*Greenwich.*
a Hampstead	*61*	*15, 16*	*43*	*21st*	*58·3*	*48·7*	*53·3*	—	*79*	*0*	1	30	•	•	•	•	*0*	*0·00*	—	*3·0*	—	*24*	—	*Hampstead.*
a Camden Square ..	*66*	*18th*	*41*	*21st*	*62·1*	*48·4*	*54·9*	—	*90*	*0*	0	38	•	•	•	•	*0*	*0·00*	—	*2·5*	—	*20*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch	61	18th	40	18th	58·3	46·0	51·9	- 1·4	69	0	•	•	•	•	•	•	1	0·02	- 1·12	•	•	•	•	
p Glasgow	62	16th	41	18th	58·4	46·4	52·1	- 0·3	71	0	0	32	•	•	•	•	0	0·00	- 0·77	3·7	+ 0·5	30	+ 4	Glasgow.
p Rothesay	65	18th	41	18th	62·6	45·9	53·9	+ 0·7	83	0	•	•	•	•	52·5	-1·0	0	0·00	- 1·00	•	•	•	•	
a Kilmarnock ..	66	18th	39	15, 18, 19	60·7	42·3	51·1	- 1·5	64	0	•	•	•	•	•	•	0	0·00	—	*4·5*	—	*37*	—	*Kilmarnock.*
a Colmonell ..	65	18th	35	20th	59·9	42·9	51·0	- 2·7	63	0	0	32	•	•	•	•	0	0·00	- 0·96	•	•	•	•	
p Dumfries ..	64	18th	41	20, 21	60·4	43·6	51·6	- 2·0	67	0	0	34	53·9	•	54·7	•	0	0·00	- 0·71	*5·6*	—	*46*	—	*Dumfries.*
p Cally, Gatehouse	67	16th	37	20th	64·0	40·6	51·7	- 0·7	74	4	•	•	•	•	•	•	0	0·00	- 0·92	•	•	•	•	
b I. OF MAN.																								
p Douglas	61	18th	47	18th	57·1	49·6	53·2	- 0·3	78	0	0	42	•	•	•	•	0	0·00	- 0·90	6·1	+ 1·4	50	+12	Douglas.
											0	32	53·3	+0·5	53·0	-0·8	—	—	—	*4·1*	—	*33*	—	*Burnley.*
											0	34	•	•	•	•	—	—	—	3·8	—	31	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	65	17th	39	19th	61·1	43·3	51·8	- 0·8	69	0	0	32	53·6	•	53·4	•	0	0·00	- 0·88	6·7	—	55	—	Aspatria.
p Newton Rigg	64	17, 18	36	19, 21	60·1	40·4	49·8	- 1·8	61	4	3	26	53·8	-1·2	52·8	-1·6	0	0·00	- 0·69	4·9	+ 0·9	40	+ 7	Newton Rigg.
p Stonyhurst	62	18th	44	19th	58·3	47·4	52·6	- 0·9	74	0	0	39	•	•	•	•	0	0·00	- 0·98	4·2	+ 0·1	34	+ 1	Stonyhurst.
p Blackpool	63	18th	38	19th	58·6	46·6	52·3	- 2·5	72	0	1	29	54·3	•	54·2	•	0	0·00	- 0·73	5·1	+ 1·0	42	+ 8	Blackpool.
p Manchester (Whit. Pk.)	*62*	*18th*	*43*	*21st*	*59·3*	*49·1*	*54·0*	—	*84*	*0*	1	30	•	•	•	•	0	0·00	—	*3·3*	—	*27*	—	*Whit. Park.*
a Liverpool (Bidston) ..	60	18th	44	19, 21	57·0	48·1	52·3	- 2·5	72	0	•	•	•	•	•	•	1	0·02	- 0·60	*3·7*	—	*30*	—	*Liverpool.*
a Hawarden Bridge ..	64	18th	35	21st	59·0	48·4	53·5	- 2·2	81	0	0	31	55·3	-1·2	56·4	-1·3	1	0·01	- 0·44	*5·0*	+ *0·8*	*41*	+ *6*	*Southport.*
											0	36	54·1	-1·4	55·8	-1·3	—	—	—	*3·2*	—	*26*	—	*Manchester City).*
b, NORTH WALES.																								
p Llandudno	59	18th	44	21st	56·9	48·6	52·6	- 3·5	74	0	•	•	•	•	•	•	0	0·00	- 0·57	4·1	- 0·1	33	- 1	Llandudno.
a Holyhead	62	18th	45	21st	58·0	49·6	53·6	- 2·0	81	0	•	•	•	•	•	•	0	0·00	- 0·66	6·5	—	53	—	Aberdovey.
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average								
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	*	*	*	6·1	—	50	—	
a Llangammarch Wells	68	16th	37	18th	60·1	43·1	51·2	− 1·7	64	0	0	31	53·1	−1·5	53·0	−1·8	0	0·00	—	4·3	—	35	—	Aberystwyth.
a Pembroke	63	18th	45	21st	59·1	49·1	53·9	− 2·1	83	0	*	*	*	*	*	*	0	0·00	− 0·70	4·6	− 0·2	37	− 2	Llangammarch
p Cardiff	68	16th	43	21st	60·4	46·7	53·2	− 2·0	78	0	0	39	55·3	−0·4	56·0	−1·2	0	0·00	− 0·83	*4·9*	—	*40*	—	Pembroke.[Wells *Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	68	16th	42	18th	61·6	47·7	54·3	− 2·1	86	0	0	40	*	*	*	*	0	0·00	− 0·63	*4·8*	—	*39*	—	*Clifton.*
a Shaftesbury	66	15th	40	21st	60·3	45·4	52·5	− 2·5	74	0	*	*	55·5	*	56·2	*	0	0·00	− 0·64	*	*	*	*	Shaftesbury.
a Arlington	66	16th	44	18–21	60·9	46·1	53·1	− 1·2	78	0	*	*	57·5	*	*	*	0	0·00	− 1·10	7·0	+ 2·0	57	+16	Newquay.
a Cullompton	72	16th	39	21st	64·1	44·9	54·0	− 0·9	84	0	0	34	57·2	*	*	*	0	0·00	− 0·60	4·8	+ 0·3	39	+ 2	Cullompton.
a Portland	65	15th	49	19, 21	60·9	51·1	55·8	− 2·0	97	0	*	*	*	*	*	*	0	0·00	—	*6·6*	—	*54*	—	*Weymouth.*
p Plymouth	66	15th	47	17th	62·1	49·9	55·7	− 1·1	96	0	0	39	57·4	−0·8	*	*	0	0·00	− 0·64	6·8	+ 1·8	55	+15	Plymouth.
p Falmouth	63	15th	50	17th	59·6	52·7	56·0	− 0·7	98	0	*	*	*	*	*	*	0	0·00	− 0·80	7·0	+ 1·9	57	+15	Falmouth.
9. IRELAND. N.																								
a Malin Head	64	19th	45	20, 21	58·0	48·3	52·9	− 1·1	76	0	*	*	*	*	*	*	2	0·04	− 0·66	*	*	*	*	
a, West .. *a* Blacksod Point ..	64	18th	47	20th	59·4	49·9	54·4	+ 0·3	87	0	*	*	*	*	*	*	0	0·00	− 0·98	*	*	*	*	
p Markree Castle ..	65	18th	38	18th	60·9	45·1	52·6	− 0·2	74	0	0	34	56·3	*	54·9	*	0	0·00	− 0·85	3·5	− 0·1	29	− 1	Markree Castle.
a Birr Castle	64	16th	40	19, 20	61·1	45·9	53·1	− 0·4	78	0	*	*	*	*	*	*	0	0·00	− 0·55	*3·9*	*− 0·3*	*32*	*− 2*	*Birr Castle.*
b, East .. *p* Armagh	65	15th	38	19th	60·3	45·0	52·3	− 0·8	72	0	0	32	55·3	−0·9	55·0	−1·0	0	0·00	− 0·61	5·3	+ 1·5	43	+12	Armagh.
a Donaghadee	60	17th	47	17, 18	57·6	49·6	53·4	− 0·9	80	0	*	*	*	*	*	*	0	0·00	− 0·62	*	*	*	*	
											0	38	55·0	−1·4	54·8	−1·6	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND. S.											0	31	*	*	*	*	—	—	—	4·3	− 0·3	35	− 3	Phœnix Park.
p Dublin, City	62	15th	47	20th	58·4	49·4	53·7	− 1·6	82	0	0	43	*	*	*	*	1	0·01	− 0·49	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	65	15th	43	21st	60·8	47·0	53·6	− 0·6	81	0	*	*	*	*	*	*	0	0·00	− 0·57	*	*	*	*	
a Waterford	65	16th	40	15th	61·1	46·7	53·6	− 1·0	81	0	*	*	*	*	*	*	0	0·00	− 0·68	*	*	*	*	
a Birr Castle	64	16th	40	19, 20	61·1	45·9	53·1	− 0·4	78	0	*	*	*	*	*	*	0	0·00	− 0·55	3·9	− 0·3	32	− 2	Birr Castle.
a Foynes	62	17, 18	42	21st	60·7	48·7	54·4	− 0·3	87	0	*	*	*	*	*	*	1	0·04	− 0·66	*	*	*	*	
a Cahir	67	16th	44	21st	62·0	47·3	54·3	− 0·3	86	0	*	*	*	*	*	*	0	0·00	—	*	*	*	*	
b, West .. *a* Killarney	72	16th	48	21st	65·1	52·0	58·2	+ 3·6	113	0	*	*	*	*	*	*	1	0·01	− 0·91	*	*	*	*	
a Valencia	67	18th	45	16, 17, 19	62·1	48·6	55·0	− 0·8	91	0	*	*	*	*	*	*	0	0·00	− 1·00	6·1	+ 1·8	50	+15	Valencia.
a Roche's Point	63	15th	49	16, 17	59·3	50·4	54·6	− 1·3	88	0	*	*	*	*	*	*	5	0·09	− 0·65	5·5	—	45	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	62	15, 17, 18	50	15th	60·6	51·6	55·9	− 2·3	97	0	*	*	*	*	*	*	0	0·00	− 0·64	7·1	+ 1·6	58	+13	Scilly.
a Jersey, St. Aubins ..	68	17th	49	16, 21	64·3	51·9	57·3	− 2·5	107	0	*	*	*	*	*	*	0	0·00	− 0·66	7·8	+ 1·9	63	+16	St. Heliers.
a Guernsey (Villa Carey)	68	16, 17	50	16th	65·1	53·4	59·0	− 0·2	119	0	0	44	59·3	−0·9	59·4	−1·5	0	0·00	− 0·74	7·4	+ 1·8	60	+14	Guernsey.*

Additional Sunshine Means:—*Bognor, 4·2 hrs. 34 %; Ramsgate, 3·5 hrs. 29 %; Rhyl, 3·8 hrs. 31 %; Salcombe, 6·5 hrs. 53 %; Tenby, 5·3 hrs. (+0·4) 43 % (+ 3 %); Torquay, 5·6 hrs. (+0·4) 46 % (+3 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, September 21st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	51	51	51·0	−0·5	SCOTLAND, W. ..	Lamlash	57	51	53·9	−0·9
	Kirkwall	53	50	51·3	−1·2		Ballantrae	56	51	53·5	−0·7
	Wick	52	50	51·4	−0·7	ENGLAND, N.W. ..	Port Erin	57	54	55·1	−0·8
	Cromarty	57	53	53·8	−0·2		Newquay	58	57	57·8	−2·0
SCOTLAND, E. ..	Pennan Bay	53	52	52·8	−0·7	ENGLAND, S.W. ..	Scilly	58	55	57·0	—
	Aberdeen, Cove Bay	53	52	53·0	0·0		Plymouth‡	59	57	57·8	−1·0
ENGLAND, N.E. ..	Burnmouth, Berwick	51	48	49·8	−2·8		Salcombe	59	57	57·8	−1·1
	Scarborough	56	53	54·3	+0·2	IRELAND, N.W. ..	Sheephaven	56	54	55·4	−1·6
ENGLAND, E. ..	Shipwash Lightship	59	56	57·6	−2·6		Teelin	58	55	56·5	−0·8
	Margate‡	57	54	56·0	−4·4	IRELAND, S.W. ..	Cleggan	57	54	55·7	+0·3
ENGLAND, S.E. ..	Eastbourne‡	58	56	57·3	−3·0	IRELAND, E.	Seafield	63	52	57·8	−0·4
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-EIGHTH WEEK—September 15th to September 21st, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	65	39	57·1	46·0	51·3	+ 0·1	65	0	0	− 1	2	− 3	0·05	−1·01	2·5	−0·7	20	− 6
Eastern.																		
1. SCOTLAND, EAST ...	72	31	60·2	44·6	52·0	+ 0·3	70	+ 1	0	− 1	1	− 2	0·06	−0·48	3·7	−0·1	30	− 1
2. ENGLAND, N.E.	70	36	60·3	46·9	53·3	− 0·6	79	− 4	0	0	1	− 2	0·01	−0·34	4·2	−0·1	34	− 1
3. ENGLAND, EAST ...	64	37	59·0	48·1	53·3	− 2·3	79	− 17	0	0	0	− 3	0·00	−0·42	3·0	−2·0	24	−16
4. MIDLAND COUNTIES ...	70	35	60·1	46·3	52·9	− 1·5	76	− 11	0	− 1	0	− 3	0·00	−0·44	3·6	−0·8	29	− 6
5. ENGLAND, S.E.	66	35	60·2	47·9	53·8	− 3·0	83	− 20	0	0	0	− 3	0·00	−0·47	3·8	−1·2	31	−10
Western.																		
6. SCOTLAND, WEST ...	67	35	60·2	44·7	52·1	− 0·7	71	− 5	0	0	0	− 3	0·00	−0·93	4·9	+0·8	40	+ 7
7. ENGLAND, N.W.	65	35	58·6	46·6	52·3	− 2·3	72	− 16	0	0	0	− 4	0·00	−0·66	5·0	+0·9	41	+ 7
8. ENGLAND, S.W.	72	37	60·9	47·7	54·0	− 1·9	84	− 13	0	0	0	− 4	0·00	−0·69	5·8	+1·1	47	+ 9
9. IRELAND, NORTH ...	65	38	59·6	47·3	53·1	− 0·5	78	− 4	0	0	1	− 3	0·01	−0·68	4·4	+0·7	36	+ 6
10. IRELAND, SOUTH ...	72	40	61·2	48·4	54·5	− 0·4	88	− 2	0	0	1	− 2	0·02	−0·62	5·0	+0·6	40	+ 5
11. ENGLISH CHANNEL ...	68	49	63·3	52·0	57·4	− 1·4	108	− 10	0	0	0	− 4	0·00	−0·58	7·4	+1·4	60	+11

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 3 Weeks, September 1st to September 21st, 1912.

0. SCOTLAND, NORTH ...	65	34	*	*	*	*	160	− 58	0	− 1	11	− 3	2·46	−0·50	3·0	−0·5	23	− 4
Eastern.																		
1. SCOTLAND, EAST ...	72	30	*	*	*	*	172	− 63	2	0	8	− 2	1·86	+0·36	3·2	−1·0	25	− 8
2. ENGLAND, N.E.	70	36	*	*	*	*	211	− 62	0	0	8	− 1	0·90	−0·51	3·6	−1·0	28	− 8
3. ENGLAND, EAST ...	69	37	*	*	*	*	234	− 76	0	0	7	− 1	0·78	−0·51	3·4	−1·8	27	−14
4. MIDLAND COUNTIES ...	70	35	*	*	*	*	213	− 72	0	− 1	4	− 4	0·34	−1·01	3·3	−1·3	26	−10
5. ENGLAND, S.E.	68	35	*	*	*	*	243	− 90	0	0	3	− 5	0·16	−1·32	3·7	−1·6	29	−13
Western.																		
6. SCOTLAND, WEST ...	67	29	*	*	*	*	198	− 53	0	0	8	− 2	2·63	−0·02	4·4	0·0	34	0
7. ENGLAND, N.W.	66	33	*	*	*	*	214	− 70	0	0	8	− 2	1·09	−0·84	3·5	−1·0	28	− 7
8. ENGLAND, S.W.	72	33	*	*	*	*	248	− 61	0	0	4	− 6	0·23	−1·74	4·5	−0·5	36	− 4
9. IRELAND, NORTH ...	67	35	*	*	*	*	215	− 49	0	0	7	− 5	0·81	−1·27	3·6	−0·3	28	− 2
10. IRELAND, SOUTH ...	72	35	*	*	*	*	249	− 39	0	0	6	− 4	0·29	−1·66	4·1	−0·5	32	− 3
11. ENGLISH CHANNEL ...	68	43	*	*	*	*	309	− 59	0	0	4	− 6	0·24	−1·38	5·3	−1·0	38	−12

THE YEAR.—Aggregates, &c., for the Period of 38 Weeks, December 31st, 1911, to September 21st, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1646	−126	427	−131	171	− 3	33·11	− 1·26	3·2	−0·4	24	− 3
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1841	−164	521	−101	155	+12	22·60	+ 1·53	3·2	−1·1	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2202	− 21	373	−102	152	+23	23·42	+ 6·55	3·5	−1·1	26	− 9
3. ENGLAND, EAST ...	91	14	*	*	*	*	2668	+ 98	274	−247	141	+17	21·25	+ 5·05	4·3	−0·7	33	− 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2437	− 84	373	−161	140	+17	25·75	+ 7·64	3·5	−1·0	27	− 7
5. ENGLAND, S.E.	88	13	*	*	*	*	2688	− 64	218	−163	132	+14	21·52	+ 3·93	4·5	−0·6	34	− 5
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2061	− 93	329	− 96	156	+ 6	32·01	+ 0·51	3·8	−0·6	28	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2266	− 85	298	− 88	153	+15	27·18	+ 4·04	3·8	−0·7	29	− 5
8. ENGLAND, S.W.	88	9	*	*	*	*	2492	−109	189	−112	159	+24	33·25	+ 8·63	3·9	−1·1	30	− 8
9. IRELAND, NORTH ...	75	15	*	*	*	*	2065	−186	237	−108	152	−12	27·29	+ 1·35	3·5	−0·5	27	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2407	−167	167	− 92	177	+32	31·23	+ 4·10	3·6	−0·9	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3016	+ 62	44	− 65	157	+14	27·95	+ 7·65	5·0	−1·0	38	− 8

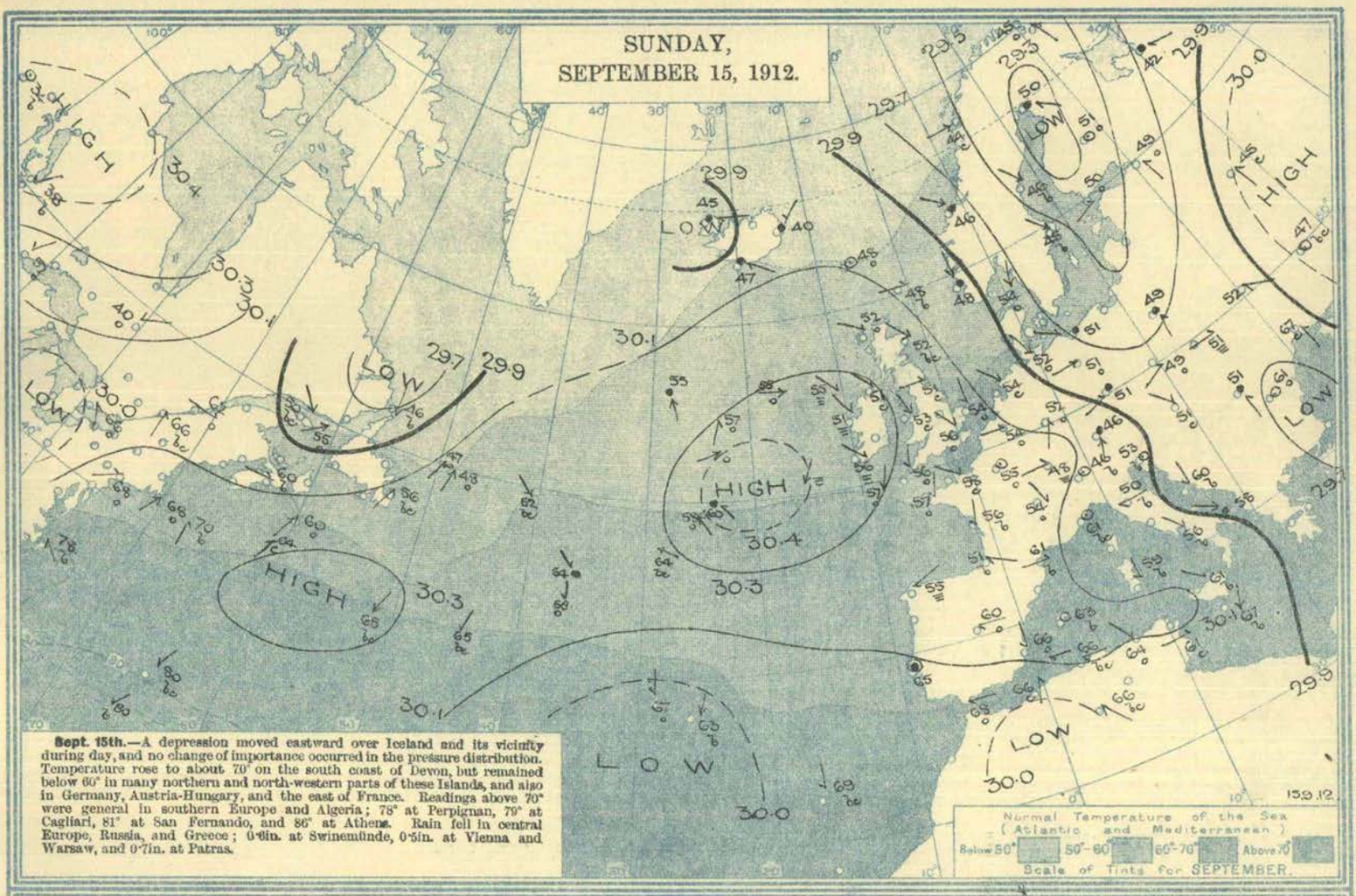
M.O., September 25, 1912.

NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given

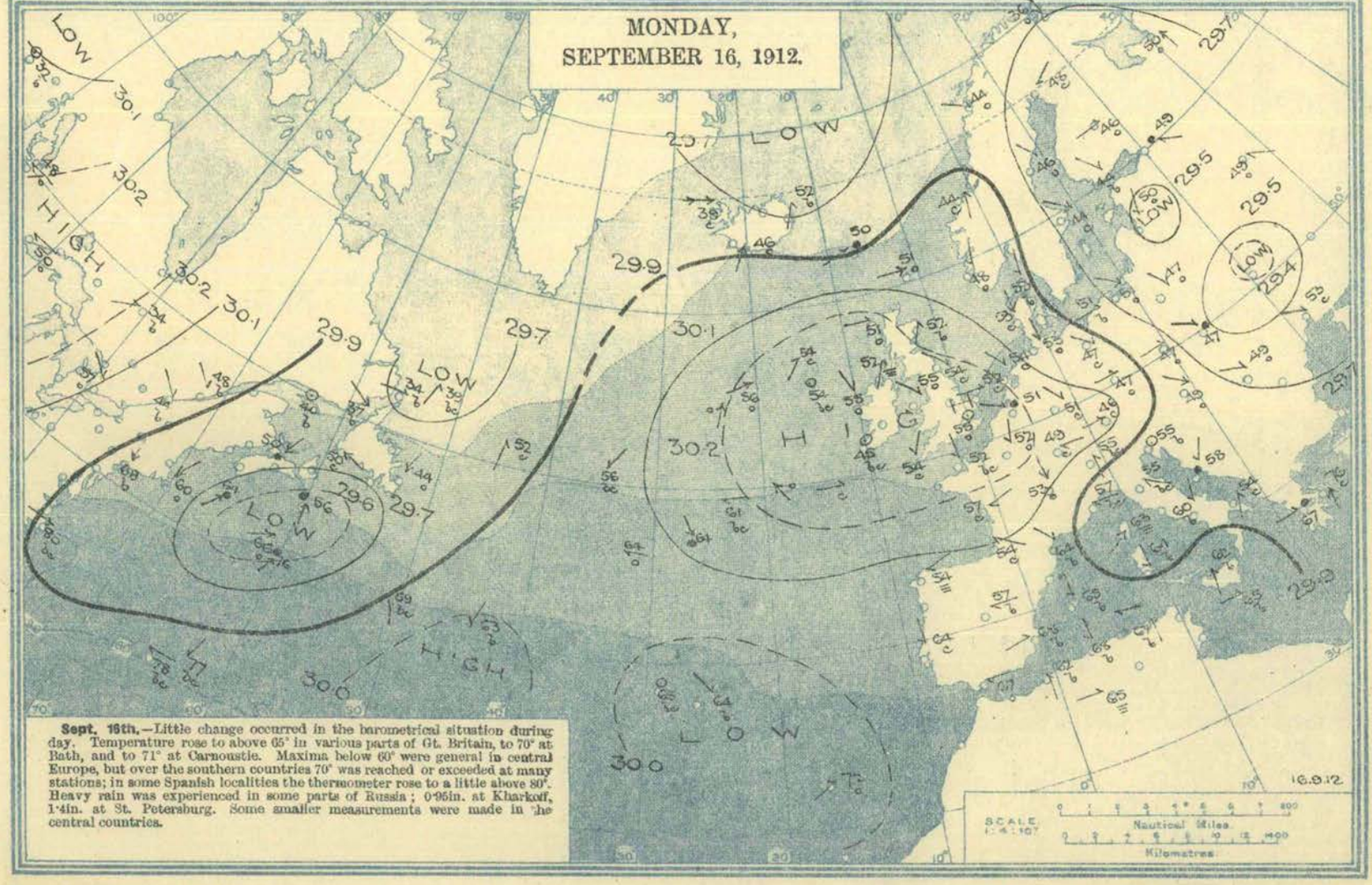
† In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

SUNDAY, SEPTEMBER 15, 1912.

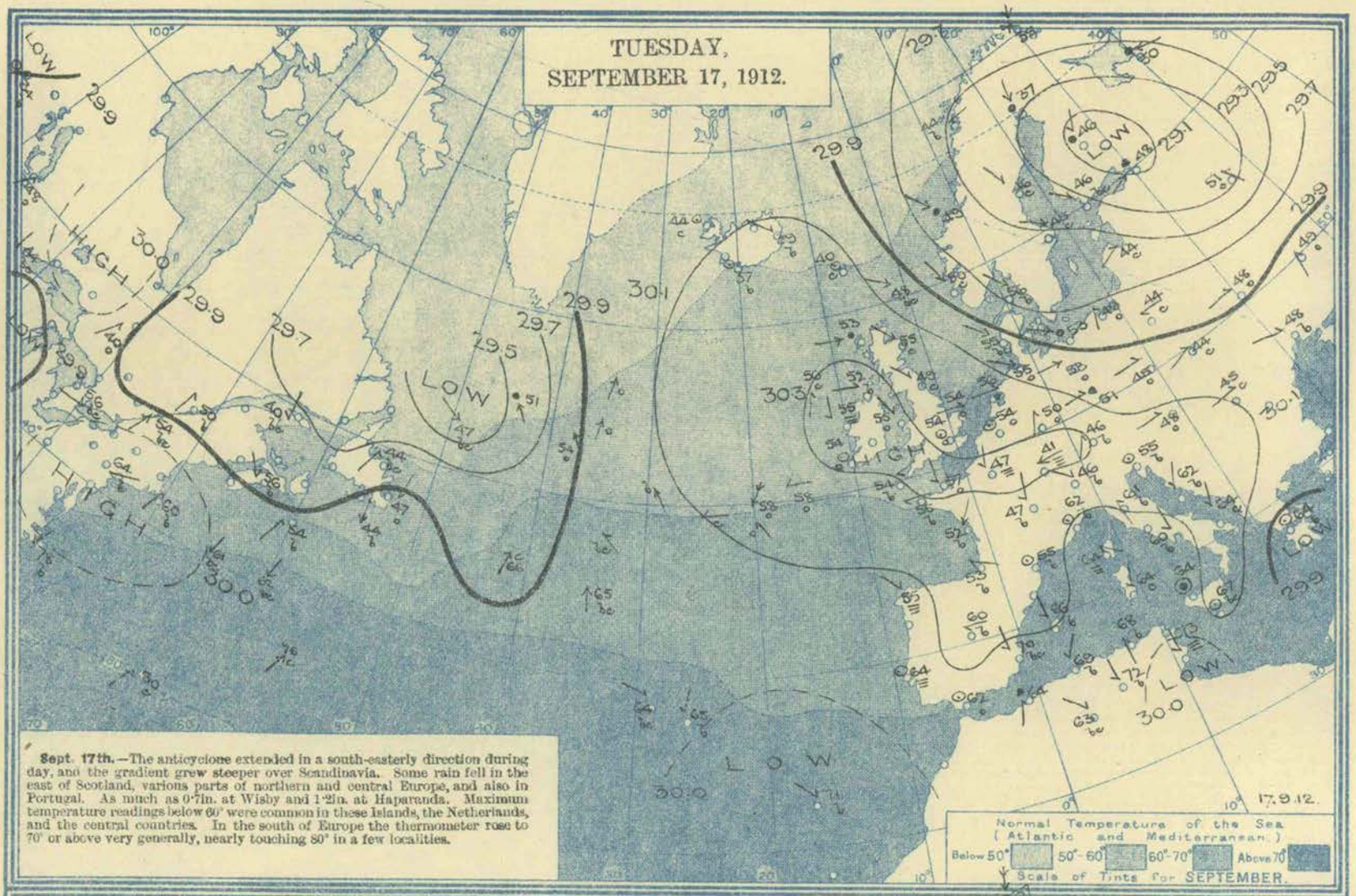


Sept. 15th.—A depression moved eastward over Iceland and its vicinity during day, and no change of importance occurred in the pressure distribution. Temperature rose to about 70° on the south coast of Devon, but remained below 60° in many northern and north-western parts of these Islands, and also in Germany, Austria-Hungary, and the east of France. Readings above 70° were general in southern Europe and Algeria; 75° at Perpignan, 79° at Cagliari, 81° at San Fernando, and 86° at Athens. Rain fell in central Europe, Russia, and Greece; 0·6in. at Swinemünde, 0·5in. at Vienna and Warsaw, and 0·7in. at Patras.

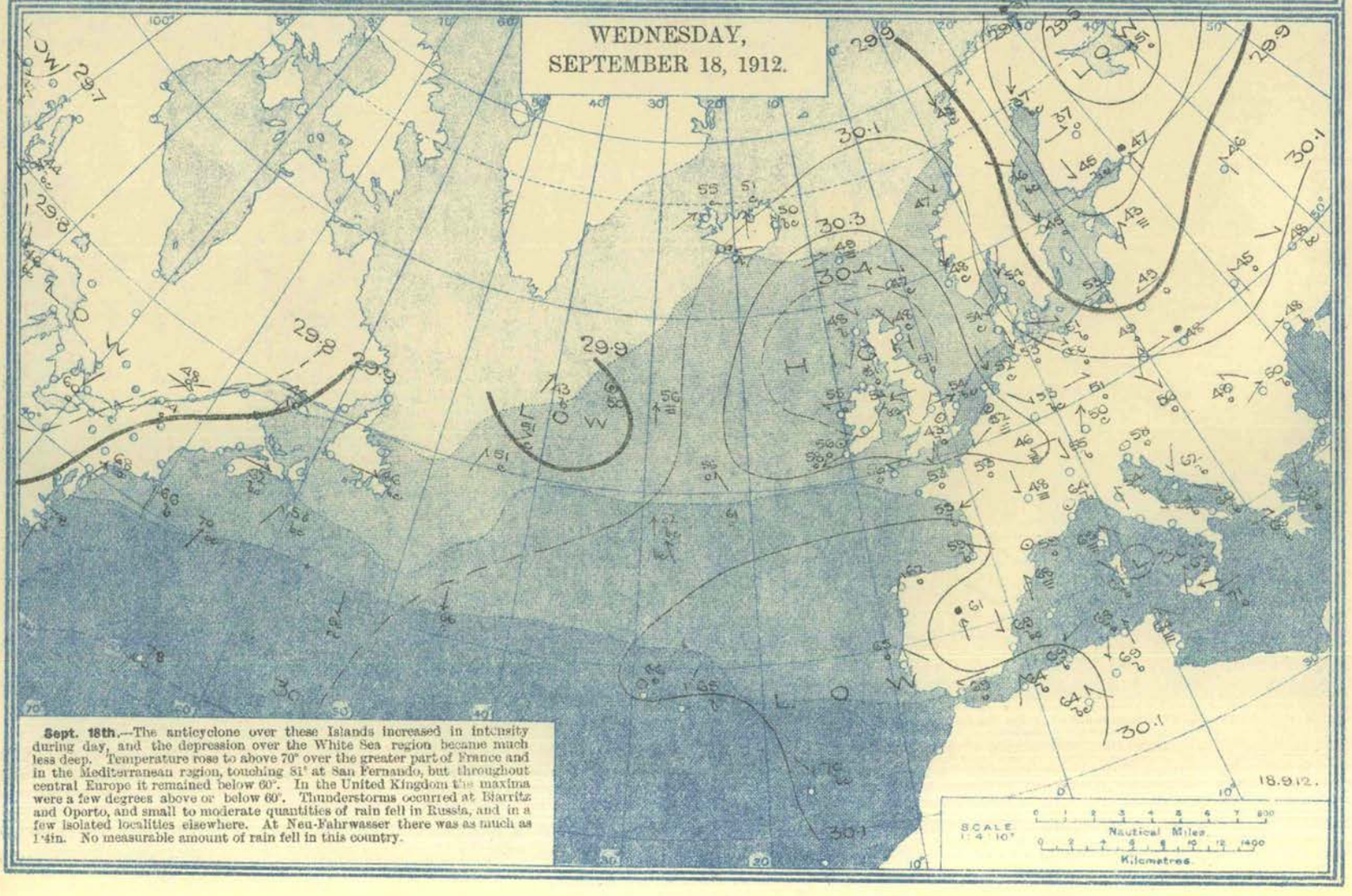
MONDAY, SEPTEMBER 16, 1912.



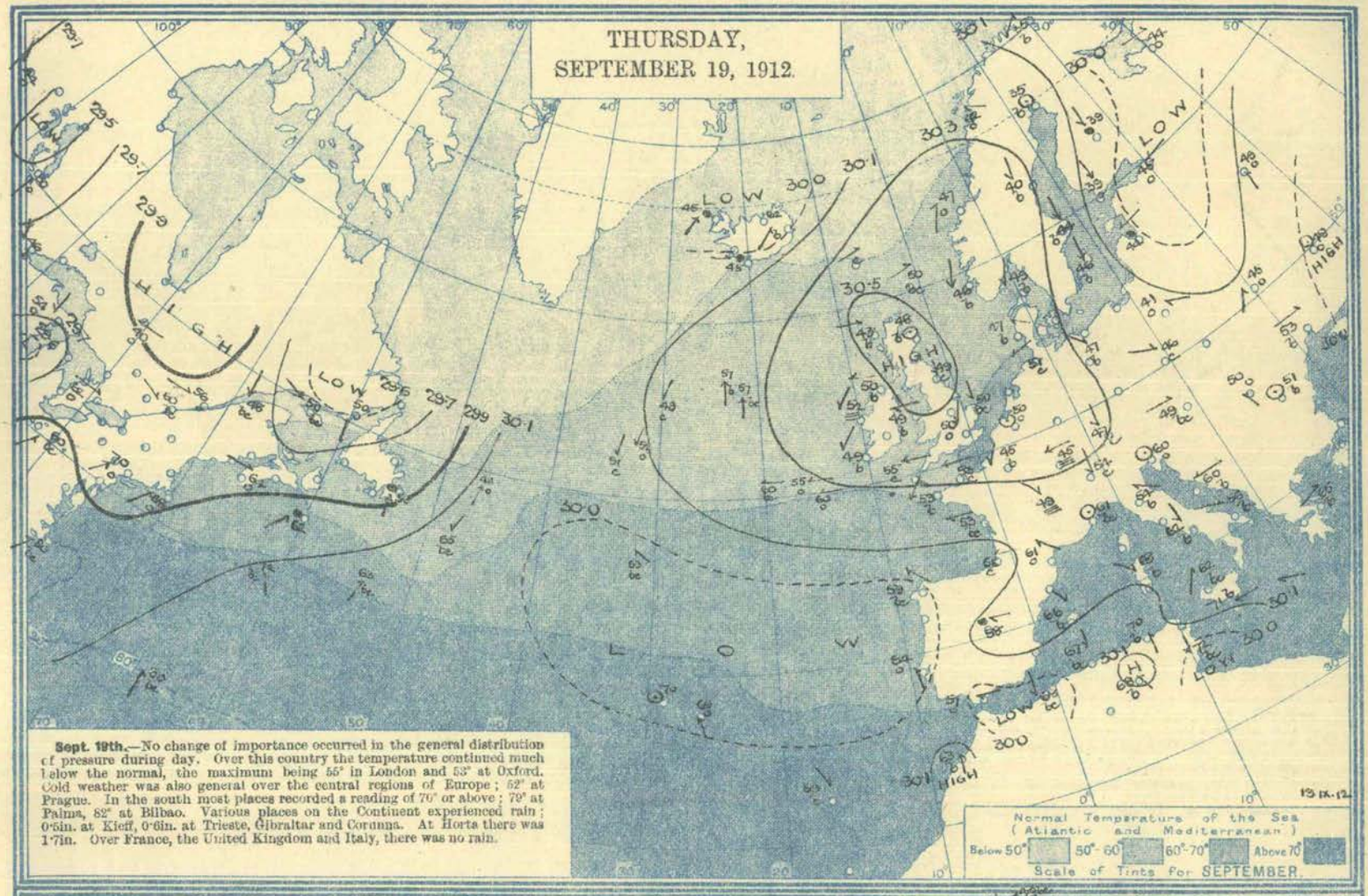
Sept. 16th.—Little change occurred in the barometrical situation during day. Temperature rose to above 65° in various parts of Gt. Britain, to 70° at Bath, and to 71° at Carnoustie. Maxima below 60° were general in central Europe, but over the southern countries 70° was reached or exceeded at many stations; in some Spanish localities the thermometer rose to a little above 80°. Heavy rain was experienced in some parts of Russia; 0·95in. at Kharkoff, 1·4in. at St. Petersburg. Some smaller measurements were made in the central countries.



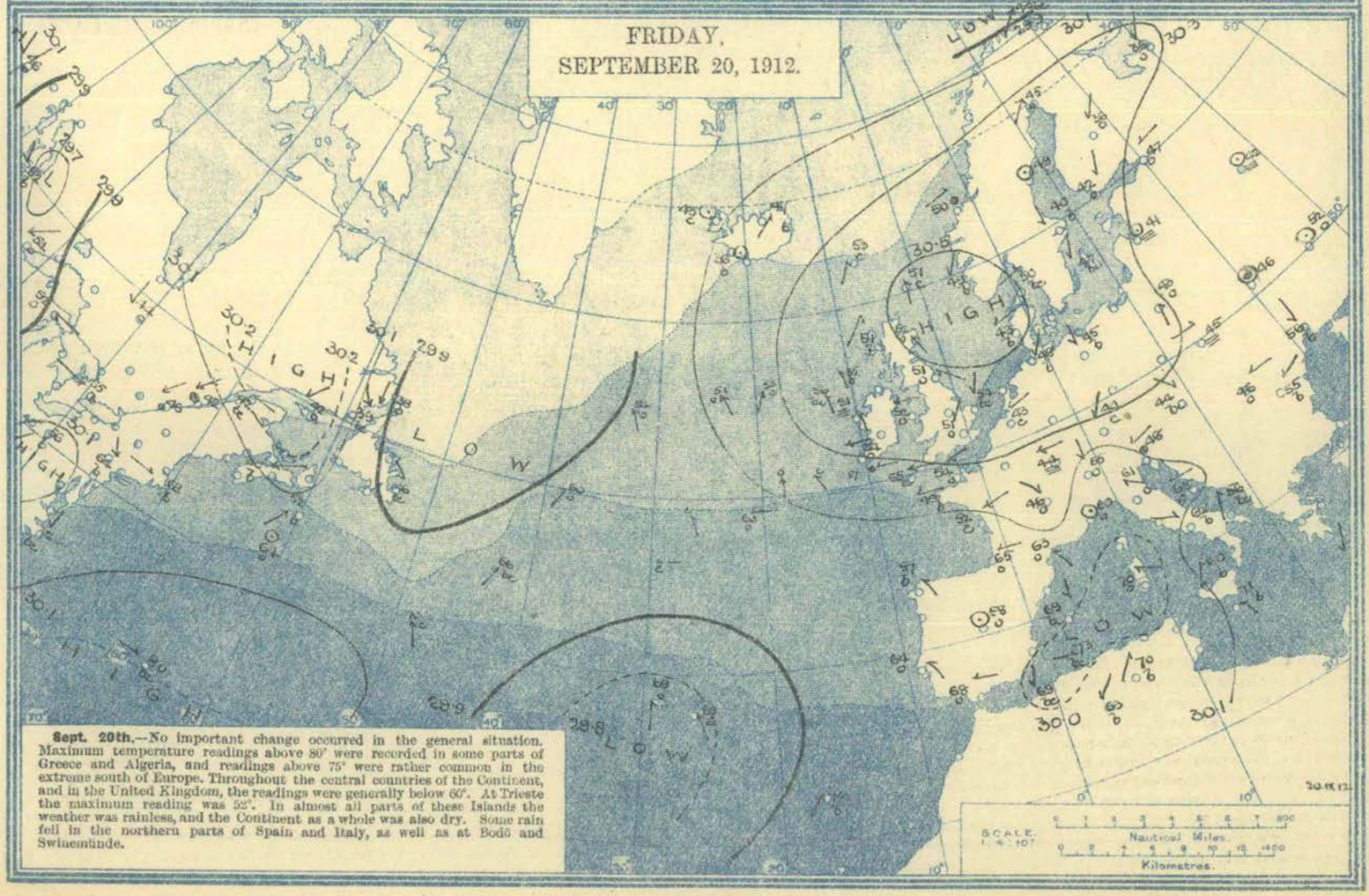
Sept. 17th.—The anticyclone extended in a south-easterly direction during day, and the gradient grew steeper over Scandinavia. Some rain fell in the east of Scotland, various parts of northern and central Europe, and also in Portugal. As much as 0·7in. at Wisby and 1·2in. at Haparanda. Maximum temperature readings below 60° were common in these Islands, the Netherlands, and the central countries. In the south of Europe the thermometer rose to 70° or above very generally, nearly touching 80° in a few localities.



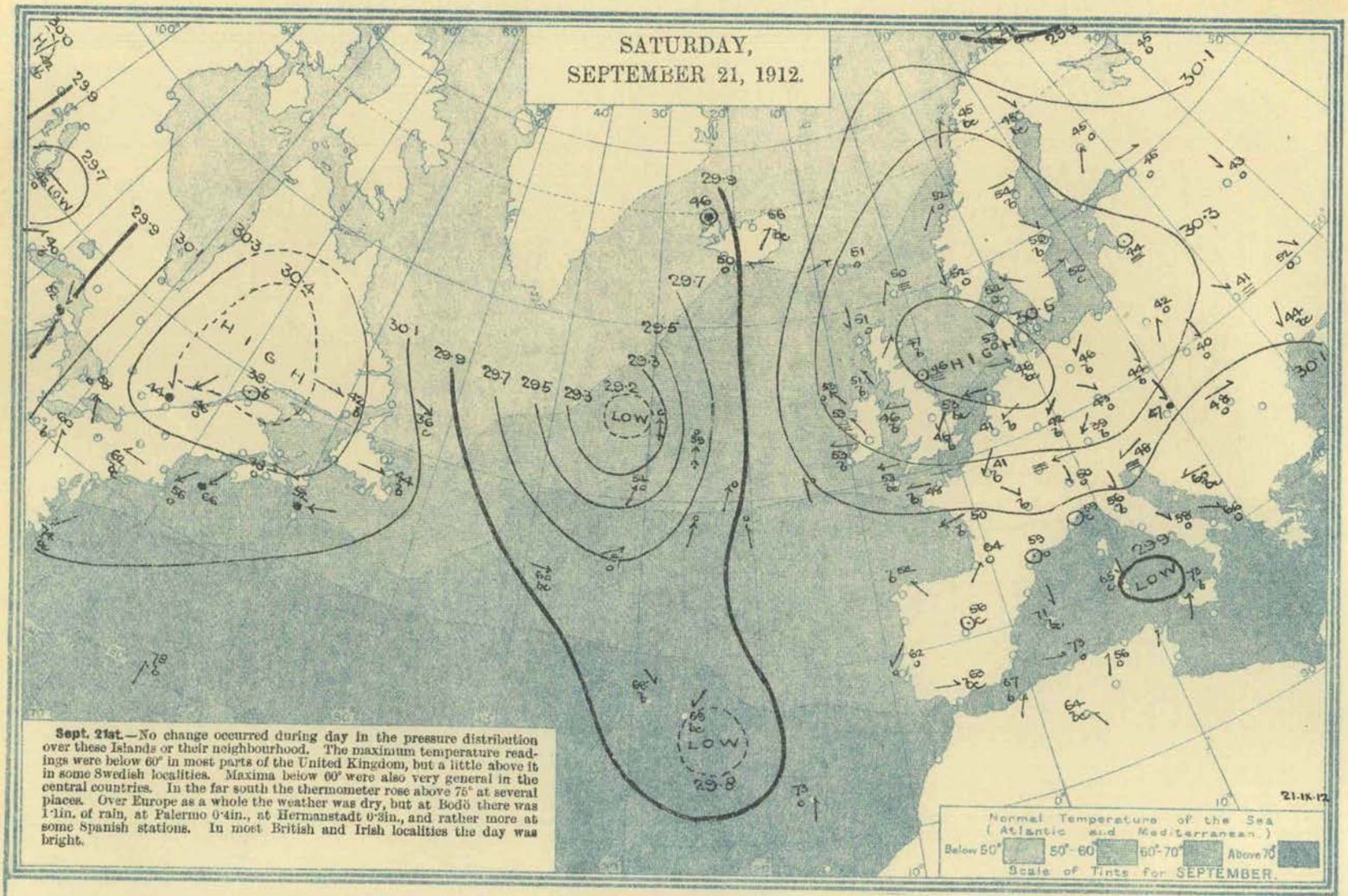
Sept. 18th.—The anticyclone over these Islands increased in intensity during day, and the depression over the White Sea region became much less deep. Temperature rose to above 70° over the greater part of France and in the Mediterranean region, touching 81° at San Fernando, but throughout central Europe it remained below 60°. In the United Kingdom the maxima were a few degrees above or below 60°. Thunderstorms occurred at Biarritz and Oporto, and small to moderate quantities of rain fell in Russia, and in a few isolated localities elsewhere. At Neu-Fahrwasser there was as much as 1·4in. No measurable amount of rain fell in this country.



Sept. 19th.—No change of importance occurred in the general distribution of pressure during day. Over this country the temperature continued much below the normal, the maximum being 55° in London and 53° at Oxford. Cold weather was also general over the central regions of Europe; 52° at Prague. In the south most places recorded a reading of 70° or above; 79° at Palma, 82° at Bilbao. Various places on the Continent experienced rain; 0·5in. at Kieff, 0·6in. at Trieste, Gibraltar and Coruna. At Horta there was 1·7in. Over France, the United Kingdom and Italy, there was no rain.

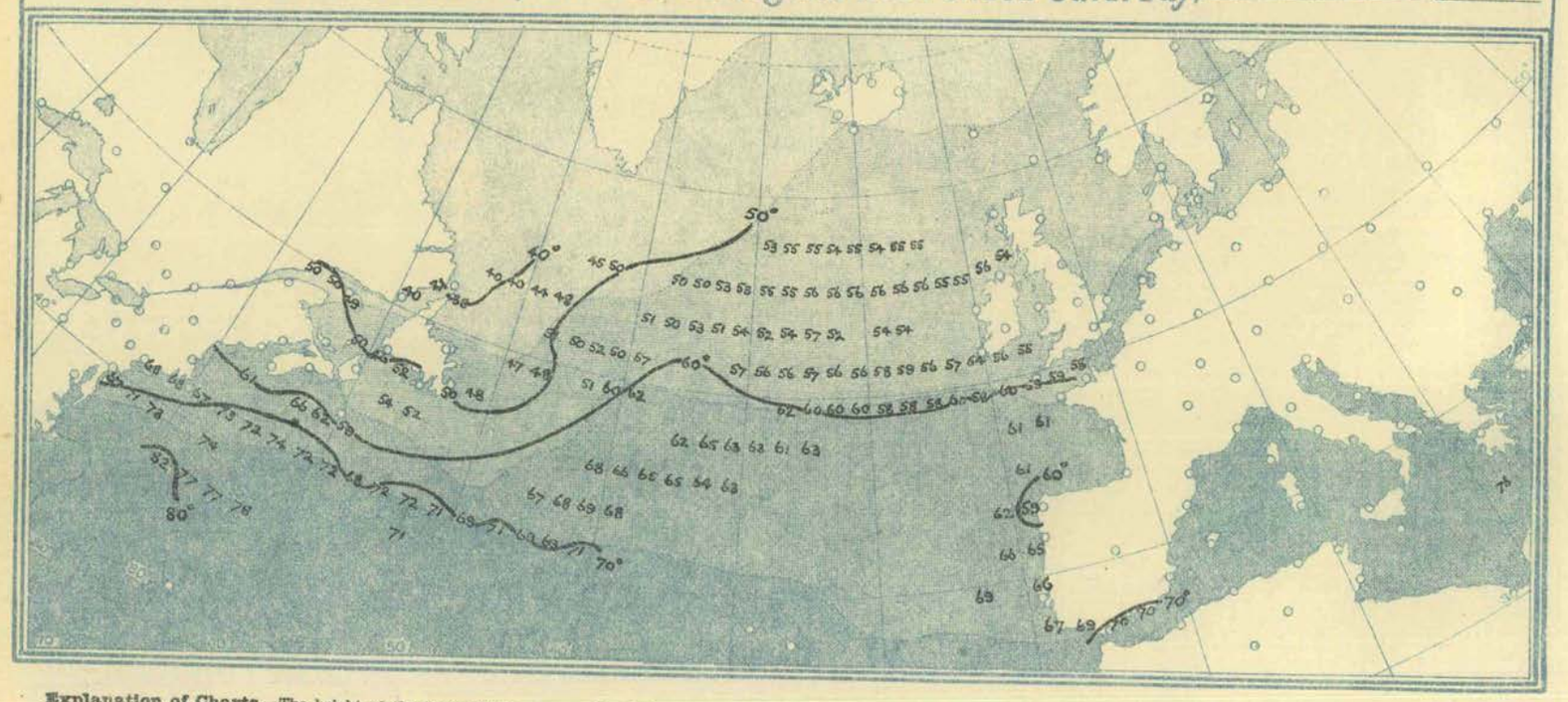


Sept. 20th.—No important change occurred in the general situation. Maximum temperature readings above 80° were recorded in some parts of Greece and Algeria, and readings above 75° were rather common in the extreme south of Europe. Throughout the central countries of the Continent, and in the United Kingdom, the readings were generally below 60°. At Trieste the maximum reading was 52°. In almost all parts of these Islands the weather was rainless, and the Continent as a whole was also dry. Some rain fell in the northern parts of Spain and Italy, as well as at Bodö and Swinemünde.



Sept. 21st.—No change occurred during day in the pressure distribution over these Islands or their neighbourhood. The maximum temperature readings were below 60° in most parts of the United Kingdom, but a little above it in some Swedish localities. Maxima below 60° were also very general in the central countries. In the far south the thermometer rose above 75° at several places. Over Europe as a whole the weather was dry, but at Bodö there was 1·1in. of rain, at Palermo 0·4in., at Hermanstadt 0·3in., and rather more at some Spanish stations. In most British and Irish localities the day was bright.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 21ST. SEPTEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ☰ = fog ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE,

AND PUBLISHED FOR H.M. STATIONERY OFFICE BY WYMAN AND SONS, LTD., FETTER LANE, E.C.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) | No. 39. THIRTY-NINTH WEEK, SUNDAY, SEPTEMBER 22ND, TO SATURDAY, SEPTEMBER 28TH, 1912. | Price 6d. Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather continued fair to fine over the Kingdom as a whole, but heavy rain occurred locally in the south-west of Ireland on Wednesday and Thursday, and rain set in over a large portion of the country on Saturday.

Temperature continued below the average, the deficit amounting to 4° in England South-East, but to only about 1° in Scotland North and in Ireland. The highest of the maxima were mostly recorded on the 22nd or 23rd, and ranged from 66° in Scotland North and 65° in Scotland East and Ireland South to 61° in Ireland North. On several days the thermometer remained below 60° over an extensive part of the country. The lowest of the minima, which occurred generally late in the week, varied from 27° in Scotland East and 29° in England South-East to 35° in England North-West, and to 47° in the English Channel. The lowest grass readings were 23° at Balmoral, West Linton and Hampstead, and 24° at Cheadle, Marlborough, Greenwich and Wisley. The earth thermometers both at 1 foot and 4 feet continued below the normal. At Southport the temperature at 1 foot was as much as 6° below.

Mean Temperature of the Sea. The temperature of the water was lower than the normal at all stations except Aberdeen, and also lower very generally than during the corresponding week of last year. At Eastbourne the water was about 6·5° colder than it was a twelvemonth ago.

Rainfall was again less than the normal in all districts. Over the Kingdom generally the fall was less than 0·1 in., and over practically the whole of Scotland the week was rainless. At Valencia on the 25th there was as much as 2·06 in.

Bright Sunshine exceeded the normal except in Scotland West and Ireland South, the excess being large in England South-East and Scotland North. In these districts the mean daily duration was respectively 6·9 hours and 6·5 hours and in England East 6·1 hours. The percentage of the possible duration ranged from 58 in England South-East, 55 in Scotland North, and 52 in England East to 29 in Ireland South, and to 28 in Scotland West.

Barometer and Wind. A large anticyclonic system centred over the North Sea and Scandinavia dominated the pressure distribution as a whole during the greater part of the period, but a depression gradually approached our south-west coasts, and on Saturday, when it increased in intensity and extended more over the Kingdom, the influence of the anticyclone was very slight. The main wind current was Easterly in the south, and South-Easterly in the north. Its force was mostly light or moderate, but a fresh to strong breeze was experienced at times on the south-eastern, southern and south-western coasts, and gale force was attained locally on some exposed points.

THE WEEK.

For explanation of the terms "Unusual," &c., see p. 155.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Moderate	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Nought	Nought	Very light	Light	Light	Light	Nought	Very light	Light	Very light	Moderate	Light
	Sunshine ...	Very abundant	Abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Abundant	Abundant	Abundant	Scanty	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 4 weeks from Sept. 1st, 1912.	Warmth ...	0 * 3	0 * 2	0 * 3	0 * 4	0 * 3	.0 * 4	0 * 3	0 * 4	0 * 3	0 * 2	0 * 1	0 * 3
	Rainfall ...	1 * 3	2 * 2	0 * 2	1 * 3	0 * 4	0 * 4	1 * 3	0 * 3	0 * 4	0 * 3	0 * 3	0 * 3
	Sunshine ...	2 * 2	1 * 2	1 * 1	1 * 2	0 * 1	1 * 2	0 * 1	2 * 2	2 * 2	2 * 1	0 * 2	2 * 2

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(26529—24.) Wt. 173—814. 450. 10/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	57	23rd	42	25–27	53·9	44·3	48·9	—	48	0	•	•	50·1		•	•	0	0·00	—	3·0	—	25	—	*Baltasound.*
a Lerwick	56	23rd	45	26th	53·4	47·7	50·4	+ 1·4	59	0	•	•	•		•	•	0	0·00	—	7·1	+ 3·7	60	+31	Deerness.
a, Islands .. *a* Stornoway	60	23rd	39	26th	56·6	44·4	50·2	+ 0·6	57	0	•	•	•		•	•	0	0·00	- 1·12	6·5	+ 3·0	55	+25	Stornoway.
a Castlebay, Barra Isd. .	*56*	*24, 28*	*49*	*28th*	*54·9*	*50·7*	*52·7*	+ *2·2*	*75*	*0*	•	•	•		•	•	*0*	*0·00*	—	*4·7*	—	*40*	—	*Castlebay.*
a Wick	55	23rd	39	23rd	53·1	45·7	49·2	- 1·0	50	0	•	•	•		•	•	0	0·00	- 0·62	•	•	•	•	
b, Main- *p* Strathpeffer ..	61	23rd	33	26th	55·4	35·9	45·2	- 4·7	48	17	•	•	•		•	•	0	0·00	- 0·60	6·3	+ 2·7	53	+23	Strathpeffer.
land. *p* Glencarron ..	66	23rd	34	26, 27	58·9	37·7	47·8	- 1·0	59	12	•	•	•		•	•	0	0·00	- 2·03	•	•	•	•	
p Fort Augustus..	62	22nd	33	24th	58·1	37·3	47·2	- 3·5	56	13	•	•	•		•	•	0	0·00	- 0·93	6·0	+ 3·5	50	+29	Fort Augustus.
p Fort William ..	63	23rd	39	23, 24	58·6	41·7	49·7	- 1·8	55	1	•	•	•		•	•	0	0·00	- 1·75	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	65	23rd	35	27th	58·7	37·7	47·7	- 3·7	58	12	4	27	51·7	-1·6	52·2	-1·5	—	—	—	4·2	—	35	—	Crathes S.
a Nairn	61	22nd	31	26, 27, 28	57·3	34·1	45·1	- 5·3	55	22	•	•	•		•	•	0	0·00	- 0·65	*5·7*	—	*48*	—	*Gordon Castle.*
a Aberdeen	56	22, 23	45	22–25	54·6	46·9	50·6	- 0·6	60	0	•	•	•		•	•	0	0·00	- 0·51	6·2	—	52	—	Nairn.
a Balmoral	63	23rd	27	24, 25	57·7	32·1	44·3	- 3·3	58	28	4	23	•		•	•	0	0·00	- 0·60	3·4	- 0·4	29	- 3	Aberdeen.
p Crieff	60	22nd	36	27th	54·3	41·4	47·5	- 4·0	41	2	•	•	•		•	•	0	0·00	- 0·70	•	•	•	•	Balmoral.
a Leith	62	22nd	34	27th	57·7	37·7	47·2	- 5·4	54	12	•	•	•		•	•	1	0·01	- 0·77	2·7	•	23	•	Balruddery.
p West Linton .. S	60	22nd	31	24th	54·1	35·0	44·1	- 5·3	44	20	5	23	•		•	•	0	0·00	- 0·41	•	•	•	•	
p Marchmont ..	60	22nd	35	23rd	55·6	38·6	46·7	- 3·9	47	10	1	30	48·9	-3·4	•	•	0	0·00	—	*5·3*	—	*45*	—	*West Linton.*
																	0	0·00	- 0·66	3·8	+ 0·3	32	+ 2	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	57	22, 27	35	25th	55·1	39·7	47·0	- 4·1	45	6	0	32	48·1	-4·0	51·4	-0·9	0	00·0	- 0·64	4·0	—	34	—	Cockle Park.
a Shields	58	22, 24	42	23rd	56·1	44·0	49·8	- 2·4	55	0	•	•	•		•	•	0	0·00	- 0·49	•	•	•	•	*Newcastle.*
p Durham	59	22nd	34	25th	54·9	39·4	46·8	- 4·9	45	7	0	33	•		•	•	0	0·00	- 0·52	3·5	- 0·1	29	- 1	Durham.
a, North .. *p* Rounton	60	22nd	35	23, 25	56·0	39·3	47·3	- 4·0	48	8	3	28	51·4		•	•	0	0·00	- 0·49	•	•	•	•	Rounton.
a West Witton ..	*59*	*22nd*	*37*	*27th*	*54·6*	*42·9*	*48·5*	—	*46*	*0*	0	31	51·2		51·9		*1*	*0·06*	—	•	•	•	•	*West Witton.*
p Scarborough ..	60	23rd	47	27th	56·2	48 9	52·4	- 0·9	73	0	•	•	•		55·0†		0	0·00	- 0·52	5·0	—	42	—	Scarborough.
p York	62	22nd	37	23rd	58·1	42·3	49·8	- 3·1	55	0	•	•	52·9	-2·4	54·6	-0·8	0	0·00	- 0·47	3·9	+ 0·3	33	+ 2	York.
a Spurn Head ..	60	24th	44	26th	57·0	48·7	52·7	- 1·7	75	0	0	31	50·7	-3·0	54·0	-0·7	1	0·06	- 0·33	*3·8*	—	*32*	—	*Hull.*
b South .. *a* Lincoln	62	23rd	40	24th	58·6	43·0	50·4	- 2·8	59	0	•	•	51·5	-3·8	54·1	-1·4	1	0·01	- 0·42	•	•	•	•	Lincoln.
a Fulbeck	61	22nd	38	24th	57·6	42·6	49·7	- 3·6	54	0	1	29	52·9	-3·1	54·5	-1·8	1	0·03	- 0·43	5·4	—	45	—	Rauceby.
											•	•	•		•	•	—	—	—	6·6	—	56	—	Skegness.
3. ENGLAND, E.											0	44	54·6	-2·6	56·5	-1·3	—	—	—	*6·3*	—	*53*	—	*Lowestoft.*
p Cromer	59	22, 23, 24	45	26, 27	57·0	48·0	52·3	- 1·7	72	0	•	•	•		•	•	2	0·02	—	6·6	—	56	—	Cromer.
p Hillington											•	•	•		•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth ..	60	23rd	49	27th	57·3	51·4	54·2	- 0·3	85	0	•	•	54·7	-2·6	56·6	-1·5	0	0·00	- 0·52	5·9	—	50	—	Yarmouth.
a Norwich	62	23rd	38	27th	58·0	42·9	50·1	- 4·8	57	0	1	29	52·9	•	•	•	2	0·13	—	*5·9*	—	*50*	—	*Norwich.*
p Geldeston	60	23rd	41	23rd	57·3	46·1	51·4	- 2·6	66	0	•	•	•	•	•	•	2	0·07	- 0·46	6·0	+ 1·3	50	+11	Geldeston.
p Cambridge	63	23rd	35	27th	59·0	41·4	49·8	- 4·1	57	2	1	30	53·1	-3·6	56·3	-1·3	2	0·10	- 0·36	5·5	+ 1·0	46	+ 8	Cambridge.
a Felixstowe ..	*59*	*22, 23, 25*	*47*	*24th*	*57·7*	*52·0*	*54·7*	- *0·6*	*89*	*0*	•	•	•		•	•	*1*	*0·01*	—	*7·7*	—	*65*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	60	23rd	48	24th	57·4	51·3	54·2	- 0·7	85	0	0	41	54·7	-2·7	56·2	-1·9	0	0·00	—	6·4	—	54	—	Clacton.
a Rothamsted	61	23rd	32	27th	58·0	40·4	48·8	- 4·0	54	4	•	•	•		•	•	3	0·06	- 0·49	5·8	+ 1·4	49	+12	Rothamsted.
a Shoeburyness ..	*60*	*23rd*	*44*	*24th*	*57·1*	*48·3*	*52·5*	- *3·5*	*74*	*0*	0	39	56·9	-2·4	•	•	*0*	*0·00*	- *0·45*	*7·1*	—	*60*	—	*Southend.*
p Tottenham	64	23rd	39	27th	58·9	43·9	51·0	- 3·9	63	0	0	32	•	•	57·5	-1·6	0	0·00	—	6·8	—	57	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	59	22nd	37	27th	55·0	40·6	47·5	- 4·1	44	4	0	32	51·3	-2·7	53·3	-1·0	—	—	—	*2·5*	—	*21*	—	*Huddersfield.*
a Bawtry	64	22nd	33	22, 27	59·7	38·0	48·3	- 4·5	61	11	1	30	51·3	-2·4	52·8	-0·4	0	0·00	- 0·61	3·1	—	26	—	Harrogate.
p Buxton	*58*	*22nd*	*34*	*27th*	*54·6*	*40·4*	*47·2*	- *2·5*	*43*	*4*	2	27	51·8	•	54·0	•	0	0·00	- 0·41	3·8	+ 0·3	32	+ 3	Worksop.
a East .. *a* Nottingham	61	23rd	37	25th	57·9	40·6	48·8	- 4·3	53	4	2	28	50·4	-2·7	51·7	-1·7	*1*	*0·04*	- *0·36*	*3·6*	—	*30*	—	*Buxton.*
p Birmingham, Edgbsn.	60	23rd	39	27th	56·7	43·3	49·7	- 3·1	54	0	0	33	51·3	-3·3	54·6	-1·1	2	0·03	- 0·45	4·5	—	38	—	Nottingham.
a Raunds	62	22, 23	36	27th	59·0	41·3	49·7	- 3·4	57	2	1	30	49·5	-3·6	51·8	-1·0	1	0·10	- 0·40	2·8	—	24	—	Birmingham.
a Oxford	62	23rd	38	22nd	59·1	41·0	49·6	- 4·2	57	3	0	31	53·5	•	55·7	•	1	0·04	—	•	•	•	•	Raunds.
											3	29	•	•	•	•	1	0·04	- 0·43	5·7	+ 1·4	48	+11	Oxford.
											1	35	51·4	-3·0	53·4	-1·2	—	—	—	*2·5*	—	*21*	—	Sheffield.
a Cheadle	60	23rd	36	26th	57·1	43·0	49·7	- 1·9	54	0	2	24	•	•	•	•	1	0·08	- 0·56	•	•	•	•	Cheadle.
p Shrewsbury ..	61	22, 23	31	22nd	58·1	37·6	47·4	- 6·4	56	12	1	30	•	•	•	•	1	0·02	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	62	23rd	35	22nd	57·7	38·3	48·1	- 5·3	54	8	1	30	•	•	•	•	1	0·20	- 0·28	•	•	•	•	Hereford.
a Cirencester	61	23rd	36	27th	57·0	40·9	48·6	- 4·5	51	3	0	33	51·9	•	54·1	•	1	0·16	- 0·42	5·6	+ 1·4	47	+12	Cirencester.
a Bath	64	23rd	35	25th	60·4	39·1	49·2	- 5·7	63	8	•	•	54·1	-3·9	58·1	-0·9	1	0·17	- 0·41	6·3	—	53	—	Bath.
5. ENGLAND, S.E.																								
											2	25	55·4	-1·3	56·8	-1·2	—	—	—	•	•	•	•	Canterbury.
p Kew	63	23rd	41	27th	58·7	44·4	51·2	- 3·1	64	0	5	27	52·2	-4·1	55·4	-1·2	0	0·00	- 0·50	6·3	+ 2·2	53	+18	Kew.
a Marlborough	61	23rd	29	25th	57·7	37·1	46·9	- 5·1	55	14	3	24	•	•	•	•	1	0·14	- 0·39	5·9	+ 2·1	50	+18	Marlborough.
a Margate	62	23rd	46	27th	59·7	49·1	54·2	- 1·8	85	0	•	•	53·7	-2·8	55·4	-1·8	0	0·00	- 0·50	7·7	+ 3·2	65	+27	Margate.
a Wisley, Surrey ..	62	23rd	33	27th	59·4	39·0	48·7	- 5·9	60	8	4	24	52·3	-4·2	55·6	-2·0	1	0·29	—	7·1	—	60	—	Wisley
a Swarraton	63	23rd	31	25th	59·0	38·0	48·0	- 4·9	59	11	0	35	53·7	-4·1	57·5	-0·7	2	0·20	- 0·40	7·3	—	61	—	Worthing.
a Tunbridge Wells ..	63	23rd	36	27th	59·3	40·9	49·7	- 4·3	59	8	2	29	53·3	-3·7	•	•	1	0·05	- 0·58	8·7	+ 4·0	73	+33	Tunbridge Wells.
a Dungeness	60	23, 24	45	24th	58·4	48·0	53·0	- 3·2	77	0	•	•	•	•	•	•	0	0·00	- 0·56	7·0	—	59	—	Littlestone.
p Hastings.. ..	62	23rd	45	24, 25, 26	58·3	47·0	52·4	- 3·7	73	0	0	39	54·6	•	57·6	•	1	0·05	- 0·65	*7·9*	+ *2·9*	*66*	+*24*	*Hastings.*
p Southampton	64	23rd	39	25th	59·6	44·0	51·4	- 4·3	66	0	0	32	•	•	•	•	1	0·07	- 0·53	6·5	+ 1·8	55	+15	Southampton
a Ventnor	61	24th	47	25th	57·7	50·3	53·8	- 3·6	83	0	•	•	•	•	•	•	1	0·07	- 0·55	6·0	+ 0·9	50	+ 7	Ventnor.
											0	36	53·7	-4·5	57·2	-2·0	—	—	—	*6·9*	—	*58*	—	*Portsmouth.*
											•	•	55·7	•	57·7	•	—	—	—	6·9	+ 1·9	58	+16	Eastbourne.
											•	•	53·5	•	55·7	•	—	—	—	*6·1*	—	*51*	—	*Bournemouth.*
LONDON,											0	37	•	•	57·9	•	—	—	—	*6·8*	+ *1·9*	*57*	+*15*	*Brighton.*
a Westminster	*63*	*23rd*	*44*	*27th*	*59·3*	*47·4*	*53·1*	- *1·5*	*78*	*0*	0	37	•	•	•	•	*1*	*0·02*	- *0·46*	*6·2*	+ *2·9*	*52*	+*25*	*Westminster.*
a Greenwich	*64*	*23rd*	*37*	*27th*	*59·9*	*43·1*	*51·1*	- *4·2*	*64*	*0*	2	24	•	•	•	•	*1*	*0·03*	- *0·45*	*7·1*	+ *2·6*	*60*	+*22*	*Greenwich.*
a Hampstead	*60*	*23rd*	*39*	*27th*	*56·4*	*43·6*	*49·7*	—	*54*	*0*	2	23	•	•	•	•	*1*	*0·05*	—	*6·6*	—	*56*	—	*Hampstead.*
a Camden Square ..	*66*	*23rd*	*36*	*27th*	*61·4*	*43·0*	*51·8*	—	*69*	*0*	0	32	•	•	•	•	*1*	*0·03*	—	*6·0*	—	*50*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	59	23rd	40	25, 27	55·4	42·0	48·4	- 3·4	45	0	•	•	•	•	•	•	0	0·00	- 1·14	•	•	•	•	
p Glasgow	61	22nd	38	23rd	55·6	42·7	48·8	- 2·5	48	0	1	29	•	•	•	•	0	0·00	- 0·77	2·6	- 0·4	22	- 3	Glasgow.
p Rothesay	61	22, 24	43	25, 27, 28	57·3	45·1	50·9	- 1·1	62	0	•	•	•	•	52·0	-1·1	0	0·00	- 1·00	•	•	•	•	
a Kilmarnock ..	64	23rd	34	24th	53·0	34·6	48·4	- 3·1	55	7	•	•	•	•	•	•	0	0·00	—	*5·2*	—	*44*	—	*Kilmarnock.*
a Colmonell ..	61	23rd	39	22nd	57·4	42·9	49·8	- 2·4	55	0	0	34	•	•	•	•	0	0·00	- 0·97	•	•	•	•	
p Dumfries	62	22nd	37	27th	56·7	40·0	48·0	- 3·9	50	6	4	28	51·1	•	54·4	•	0	0·00	- 0·74	*5·1*	—	*43*	—	*Dumfries.*
p Cally, Gatehouse	62	23rd	35	23rd	58·4	40·6	49·1	- 2·0	56	4	•	•	•	•	•	•	0	0·00	- 0·95	•	•	•	•	
b I. OF MAN.																								
p Douglas	58	22nd	48	25, 27	55·0	49·3	52·0	- 0·3	70	0	0	45	•	•	•	•	0	0·00	- 0·94	4·1	- 0·2	34	- 2	Douglas.
											2	27	50·2	-2·4	52·8	-0·5	—	—	—	*3·7*	—	*31*	—	*Burnley.*
											0	34	•	•	•	•	—	—	—	5·3	—	45	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	61	27th	37	25th	57·1	40·9	48·6	- 3·0	51	3	1	30	50·7	•	53·0	•	0	0·00	- 0·89	6·1	—	51	—	Aspatria.
p Newton Rigg	60	23rd	35	24th	55·1	40·0	47·2	- 3·0	45	8	5	26	50·8	-3·7	52·3	-1·7	0	0·00	- 0·73	4·5	+ 0·8	38	+ 7	Newton Rigg.
p Stonyhurst	59	22nd	40	27th	55·9	44·3	49·8	- 2·0	55	0	0	34	•	•	•	•	1	0·03	- 0·96	3·8	0·0	32	0	Stonyhurst.
p Blackpool	61	22nd	39	23, 27	57·4	41·6	49·1	- 4·7	51	1	3	29	51·9	•	53·9	•	1	0·02	- 0·74	4·3	+ 0·4	36	+ 4	Blackpool.
a Manchester (Whit. Pk.)	*63*	*22nd*	*40*	*22nd*	*58·7*	*44·4*	*51·2*	—	*64*	*0*	3	28	•	•	•	•	0	0·00	—	*4·4*	—	*37*	—	*Whit. Park.*
a Liverpool (Bidston) ..	60	22, 23	43	25, 27, 28	57·4	44·0	50·4	- 3·1	59	0	•	•	•	•	•	•	1	0·10	- 0·58	*3·9*	—	*33*	—	*Liverpool.*
a Hawarden Bridge ..	62	22, 23	38	22nd	59·1	43·0	50·7	- 3·6	61	0	2	29	49·9	-6·0	54·9	-2·2	1	0·07	- 0·44	*3·7*	- *0·2*	*31*	- *2*	*Southport.*
											0	33	51·6	-3·8	55·1	-1·5	—	—	—	*4·1*	—	*34*	—	*Manchester City).*
b, NORTH WALES.																								
p Llandudno	60	22nd	42	27th	56·1	44·9	50·2	- 4·6	57	0	•	•	•	•	•	•	0	0·00	- 0·63	5·1	+ 1·2	43	+10	Llandudno.
a Holyhead	62	23rd	41	22nd	58·9	43·9	51·0	- 3·4	63	0	•	•	•	•	•	•	1	0·10	- 0·62	7·8	—	66	—	Aberdovey.
p Bettws-y-Coed ..	61	22nd	36	22, 26	53·1	39·6	48·4	- 5·4	55	7	0	34	48·9	-4·2	52·6	-0·9	1	0·03	—	4·8	—	40	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				7·4	—	62	—	Aberystwyth.
a Llangammarch Wells	60	23rd	32	25th	56·9	37·3	46·6	− 4·9	52	13	3	27	49·9	−4·5	53·0	−1·4	1	0·16	—	4·9	—	41	—	Llangammarch
a Pembroke	59	23, 24	46	22, 25	57·6	48·4	52·8	− 2·5	76	0	*	*	*	*	*	*	0	0·00	− 0·74	4·2	− 0·2	35	− 2	Pembroke. [Wells
p Cardiff	61	23rd	39	26th	57·4	42·4	49·5	− 4·1	53	0	0	35	51·9	−3·3	55·3	−1·4	1	0·09	− 0·79	*5·6*	—	*47*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	64	23rd	39	25th	59·7	43·4	51·2	− 3·4	64	0	0	37	*	*	*	*	1	0·04	− 0·63	*5·2*	—	*44*	—	*Clifton.*
a Shaftesbury	60	23rd	38	25th	55·7	40·7	47·8	− 6·0	46	4	*	*	51·0	*	55·6	*	1	0·14	− 0·53	*	*	*	*	Shaftesbury.
a Arlington	59	23rd	39	25th	56·4	43·7	49·8	− 3·2	55	0	*	*	54·1	*	*	*	1	0·14	− 1·03	5·2	+ 0·6	44	+ 5	Newquay.
a Cullompton	62	23rd	38	22, 25	58·9	42·1	50·1	− 3·9	57	0	0	32	53·9	*	*	*	1	0·45	− 0·20	4·4	+ 0·3	37	+ 3	Cullompton.
a Portland	64	24, 25	47	26th	59·0	49·6	54·1	− 2·4	85	0	*	*	*	*	*	*	1	0·06	—	*5·3*	—	*45*	—	*Weymouth.*
p Plymouth	61	24th	47	25, 26	58·1	49·6	53·7	− 1·8	82	0	0	36	54·8	−3·0	*	*	1	0·83	+ 0·14	5·2	+ 0·6	44	+ 5	Plymouth.
p Falmouth	59	23rd	52	25, 26	57·0	53·3	55·1	− 0·3	92	0	*	*	*	*	*	*	2	0·37	− 0·49	5·1	+ 0·4	43	+ 4	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	61	24th	45	22, 25, 27	57·3	45·4	51·1	− 1·5	64	0	*	*	*	*	*	*	0	0·00	− 0·70	*	*	*	*	*
a, West .. *a* Blacksod Point ..	60	23, 24	45	24th	58·0	47·7	52·6	− 0·3	74	0	*	*	*	*	*	*	0	0·00	− 1·03	*	*	*	*	*
a, West .. *p* Markree Castle ..	61	24th	37	24th	58·6	42·7	50·3	− 1·0	58	0	1	30	53·6	*	54·7	*	1	0·02	− 0·85	4·0	+ 0·6	34	+ 5	Markree Castle.
a, West .. *a* Birr Castle ..	60	22, 23, 24	35	24, 25	58·0	41·0	49·1	− 2·9	54	3	*	*	*	*	*	*	1	0·01	− 0·55	*2·9*	− *1·0*	*24*	− *9*	*Birr Castle.*
b, East .. *p* Armagh ..	60	23rd	33	24th	56·0	43·4	49·4	− 2·2	52	0	1	30	52·8	−2·9	54·4	−1·2	2	0·06	− 0·55	4·0	+ 0·4	34	+ 4	Armagh.
b, East .. *a* Donaghadee ..	57	22, 23	50	27th	55·6	51·3	53·3	+ 0·5	79	0	*	*	*	*	*	*	0	0·00	− 0·62	*	*	*	*	*
											0	34	53·1	−2·7	54·1	−1·8	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											4	28	*	*	*	*	—	—	—	3·8	− 0·6	32	− 5	Phœnix Park.
a, East .. *p* Dublin, City ..	59	24th	43	24th	56·9	47·9	52·2	− 1·8	71	0	0	40	*	*	*	*	1	0·16	− 0·35	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny ..	59	22, 24, 26	35	24th	57·4	43·3	50·0	− 2·3	56	0	*	*	*	*	*	*	1	0·09	− 0·49	*	*	*	*	*
a, East .. *a* Waterford ..	60	22, 23	41	24th	58·1	46·9	52·2	− 1·2	71	0	*	*	*	*	*	*	2	0·08	− 0·66	*	*	*	*	*
b, West .. *a* Birr Castle ..	60	22, 23, 24	35	24, 25	58·0	41·0	49·1	− 2·9	54	3	*	*	*	*	*	*	1	0·01	− 0·55	2·9	− 1·0	24	− 9	Birr Castle.
b, West .. *a* Foynes	62	22, 23	39	22nd	59·0	44·6	51·5	− 2·0	67	0	*	*	*	*	*	*	5	0·10	− 0·63	*	*	*	*	*
b, West .. *a* Cahir	60	22, 24	33	24th	57·6	42·7	49·8	− 3·5	55	0	*	*	*	*	*	*	3	0·17	—	*	*	*	*	*
b, West .. *a* Killarney ..	65	22, 23	48	24th	59·8	50·4	54·9	+ 1·4	90	0	*	*	*	*	*	*	4	0·34	− 0·62	*	*	*	*	*
b, West .. *a* Valencia ..	64	23rd	50	23rd	60·6	51·4	55·8	+ 1·2	97	0	*	*	*	*	*	*	4	2·85	+ 1·81	3·8	− 0·2	32	− 2	Valencia.
b, West .. *a* Roche's Point ..	59	23rd	50	24th	57·4	53·0	55·1	+ 0·6	92	0	*	*	*	*	*	*	3	0·58	− 0·17	3·1	—	26	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	60	22, 23, 24	48	25th	58·6	50·7	54·5	− 2·6	88	0	*	*	*	*	*	*	1	0·39	− 0·27	5·1	+ 0·1	43	+ 1	Scilly.
a Jersey, St. Aubins ..	62	23, 24	47	27th	60·3	48·6	54·2	− 4·3	85	0	*	*	*	*	*	*	2	0·05	− 0·69	6·8	+ 1·4	57	+11	St. Heliers.
a Guernsey (Villa Carey)	64	23rd	48	27th	60·4	50·6	55·3	− 2·5	93	0	0	43	56·0	−3·4	58·9	−1·5	2	0·20	− 0·60	6·0	+ 0·9	50	+ 7	Guernsey.*

Additional Sunshine Means:—*Bognor, 7·0 hrs. 59 %; Ramsgate, 6·5 hrs. 55 %; Rhyl, 4·3 hrs. 36 %; Salcombe, 5·0 hrs. 42 %; Tenby, 5·8 hrs. (+1·2) 49 %(+ 10 %); Torquay, 4·7 hrs. (−0·7) 40 %(−1 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, September 28th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	51	51	51·0	−0·3	SCOTLAND, W. ..	Lamlash	57	51	53·9	−0·5
	Kirkwall	54	50	51·7	−0·2		Ballantrae	55	51	52·9	−0·7
	Wick	52	49	50·4	−1·6	ENGLAND, N.W. ..	Port Erin	56	53	54·1	−1·6
SCOTLAND, E. ..	Cromarty	54	50	52·4	−1·2	ENGLAND, S.W. ..	Newquay	57	57	57·0	−2·2
	Pennan Bay	53	52	52·8	−0·3		Scilly	57	55	56·2	—
	Aberdeen, Cove Bay	53	52	52·7	+0·1		Plymouth‡	57	55	56·3	−1·8
ENGLAND, N.E. ..	Burnmouth, Berwick	50	48	48·8	−3·4		Salcombe	57	55	56·2	−2·6
	Scarborough	54	52	53·3	−0·4	IRELAND, N.W. ..	Sheephaven	55	53	54·0	−2·4
ENGLAND, E. ..	Shipwash Lightship	58	55	56·4	−3·3		Teelin	57	55	55·7	−1·2
	Margate‡	56	55	55·8	−3·9	IRELAND, S.W. ..	Cleggan	57	53	54·6	−0·6
ENGLAND, S.E. ..	Eastbourne‡	56	53	54·7	−5·1	IRELAND, E.	Seafield	58	51	54·9	−2·7
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

THIRTY-NINTH WEEK—September 22nd to September 28th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	66	33	56·3	41·5	48·5	− 1·2	48	− 8	1	− 1	0	− 5	0·00	−1·26	6·5	+3·5	55	+30
Eastern.																		
1. SCOTLAND, EAST ...	65	27	56·3	37·9	46·7	− 3·4	50	− 9	11	+ 9	0	− 5	0·00	−0·67	4·1	+0·7	34	+ 6
2. ENGLAND, N.E.	62	34	56·6	43·1	49·5	− 2·8	53	− 20	0	0	1	− 3	0·01	−0·39	4·7	+1·7	40	+ 7
3. ENGLAND, EAST ...	64	32	57·9	45·7	51·5	− 2·1	67	− 15	0	− 1	1	− 3	0·05	−0·48	6·1	+1·7	52	+14
4. MIDLAND COUNTIES ...	64	31	58·0	40·4	48·8	− 3·6	54	− 21	4	+ 3	1	− 3	0·08	−0·46	4·3	+1·2	36	+ 4
5. ENGLAND, S.E.	64	29	58·8	43·8	50·9	− 4·1	62	− 30	0	0	1	− 3	0·09	−0·53	6·9	+2·5	58	+21
Western.																		
6. SCOTLAND, WEST ...	64	34	56·7	42·8	49·4	− 2·1	52	− 15	0	− 1	0	− 5	0·00	−1·14	3·4	−0·1	28	− 1
7. ENGLAND, N.W.	62	35	57·2	42·5	49·5	− 3·4	53	− 24	0	0	1	− 3	0·04	−0·78	5·2	+1·5	44	+13
8. ENGLAND, S.W.	64	32	57·7	45·1	51·1	− 3·2	64	− 22	0	0	1	− 3	0·23	−0·66	5·2	+1·0	44	+ 9
9. IRELAND, NORTH ...	61	33	57·3	45·3	51·0	− 1·1	63	− 8	0	0	1	− 4	0·02	−0·85	4·0	+0·6	34	+ 5
10. IRELAND, SOUTH ...	65	33	58·3	46·8	52·3	− 1·2	72	− 8	0	0	3	− 2	0·50	−0·21	3·4	−0·7	29	− 6
11. ENGLISH CHANNEL ...	64	47	59·8	50·0	54·7	− 2·8	89	− 19	0	0	2	− 3	0·21	−0·56	6·0	+0·8	50	+ 7

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 4 Weeks, September 1st to September 28th, 1912.

0. SCOTLAND, NORTH ...	66	33	*	*	*	*	208	− 66	1	− 2	11	− 8	2·46	−1·76	3·9	+0·5	30	+ 4
Eastern.																		
1. SCOTLAND, EAST ...	72	27	*	*	*	*	222	− 72	13	+ 9	8	− 7	1·86	−0·31	3·4	−0·6	27	− 5
2. ENGLAND, N.E.	70	34	*	*	*	*	264	− 82	0	0	9	− 4	0·91	−0·90	3·9	−0·6	31	− 5
3. ENGLAND, EAST ...	69	32	*	*	*	*	301	− 91	0	− 1	8	− 4	0·83	−0·99	4·1	−0·9	33	− 7
4. MIDLAND COUNTIES ...	70	31	*	*	*	*	267	− 93	4	+ 2	5	− 7	0·42	−1·47	3·6	−0·8	29	− 7
5. ENGLAND, S.E.	68	29	*	*	*	*	305	−120	0	0	4	− 8	0·25	−1·85	4·5	−0·6	36	− 5
Western.																		
6. SCOTLAND, WEST ...	67	29	*	*	*	*	250	− 68	0	− 1	8	− 7	2·63	−1·16	4·1	−0·1	33	− 1
7. ENGLAND, N.W.	66	33	*	*	*	*	267	− 94	0	0	9	− 5	1·13	−1·62	3·9	−0·4	31	− 3
8. ENGLAND, S.W.	72	32	*	*	*	*	312	− 83	0	0	5	− 9	0·46	−2·40	4·7	−0·1	38	− 1
9. IRELAND, NORTH ...	67	33	*	*	*	*	278	− 57	0	0	8	− 9	0·83	−2·12	3·7	−0·1	29	− 1
10. IRELAND, SOUTH ...	72	33	*	*	*	*	321	− 47	0	0	9	− 6	0·79	−1·87	4·0	−0·5	32	− 4
11. ENGLISH CHANNEL ...	68	43	*	*	*	*	398	− 78	0	0	6	− 9	0·45	−1·94	5·4	−0·6	43	− 5

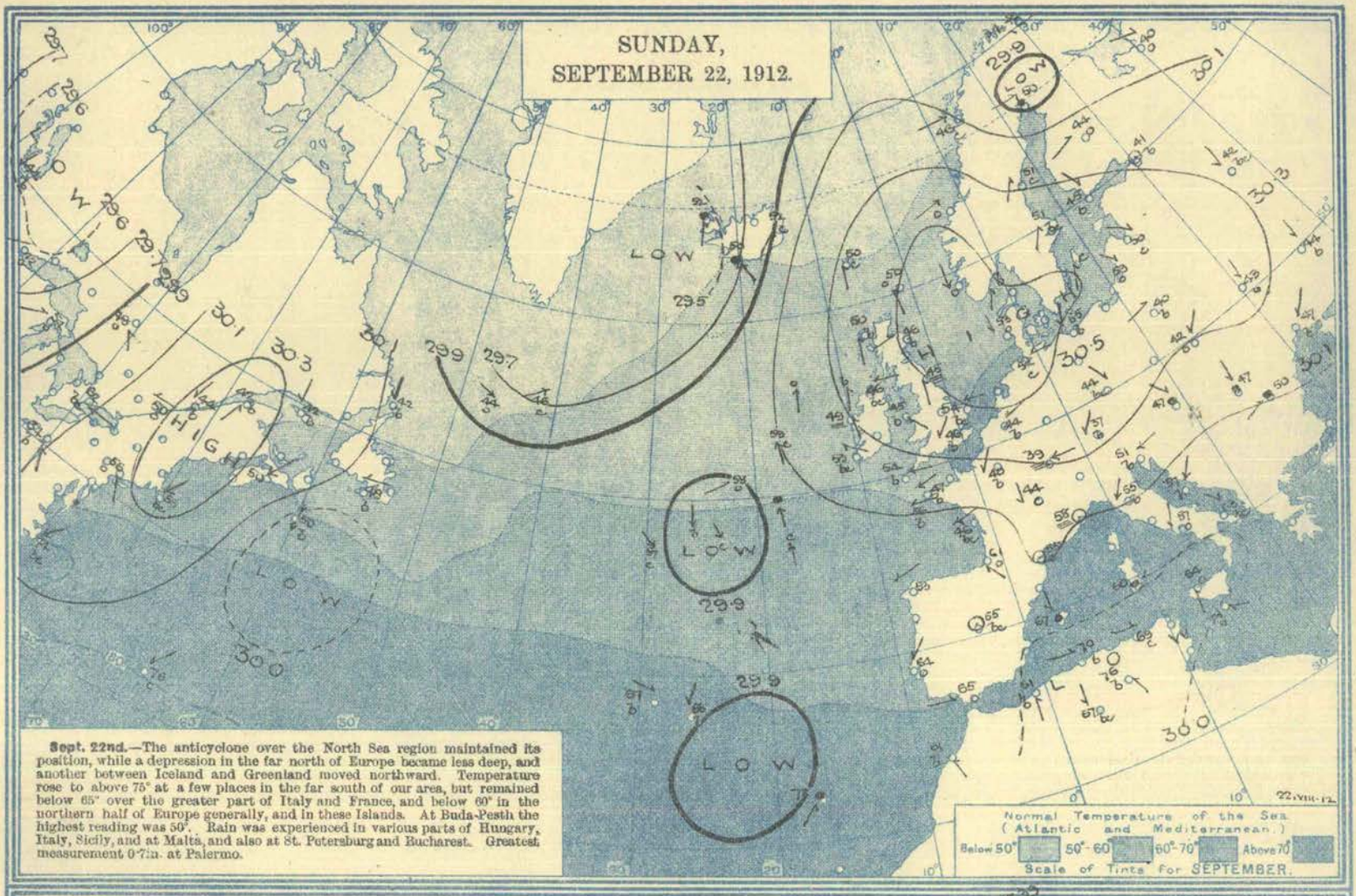
THE YEAR.—Aggregates, &c., for the Period of 39 Weeks, December 31st, 1911, to September 28th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1694	−134	428	−132	171	− 8	33·11	− 2·52	3·3	−0·3	25	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1891	−173	532	− 92	155	+ 7	22·60	+ 0·86	3·2	−1·1	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2255	− 41	373	−102	153	+20	23·43	+ 6·16	3·5	−1·1	27	− 8
3. ENGLAND, EAST ...	91	14	*	*	*	*	2735	+ 83	274	−248	142	+14	21·30	+ 4·57	4·4	−0·6	33	− 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2491	−105	377	−158	141	+14	25·83	+ 7·18	3·6	−0·8	27	− 7
5. ENGLAND, S.E.	88	13	*	*	*	*	2750	− 94	218	−163	133	+11	21·61	+ 3·40	4·5	−0·6	35	− 4
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2113	−108	329	− 97	156	+ 1	32·01	− 0·63	3·7	−0·7	28	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2319	−109	298	− 88	154	+12	27·22	+ 3·26	3·8	−0·6	29	− 5
8. ENGLAND, S.W.	88	9	*	*	*	*	2556	−131	189	−112	160	+21	33·48	+ 7·97	3·9	−1·1	30	− 8
9. IRELAND, NORTH ...	75	15	*	*	*	*	2128	−194	237	−108	153	−16	27·31	+ 0·50	3·5	−0·5	27	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2479	−175	167	− 92	180	+30	31·73	+ 3·89	3·6	−0·9	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3105	+ 43	44	− 65	159	+11	28·16	+ 7·09	5·0	−1·0	39	− 8

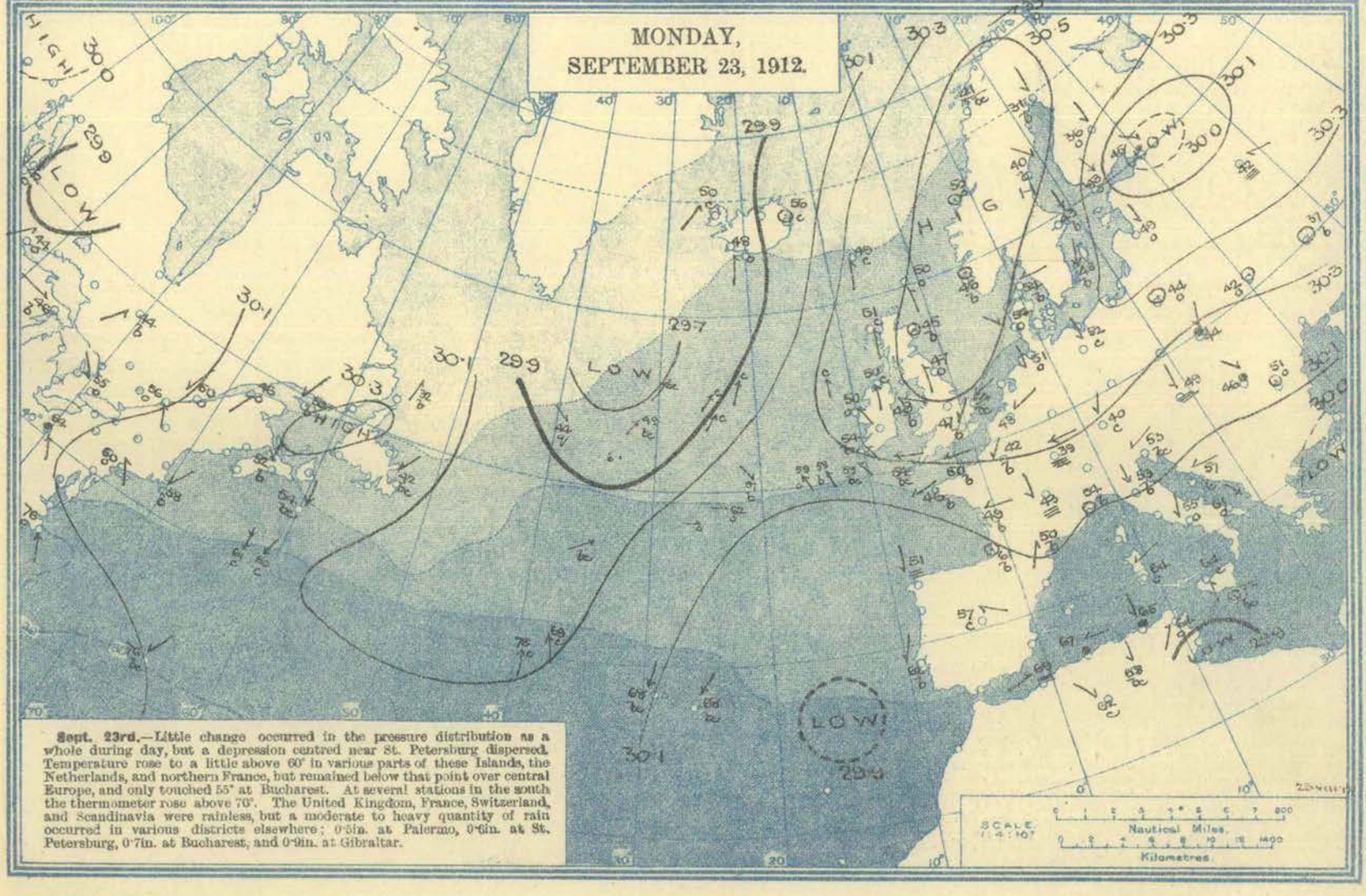
M.O., October 2, 1912.

NOTES ON TABLE IV.

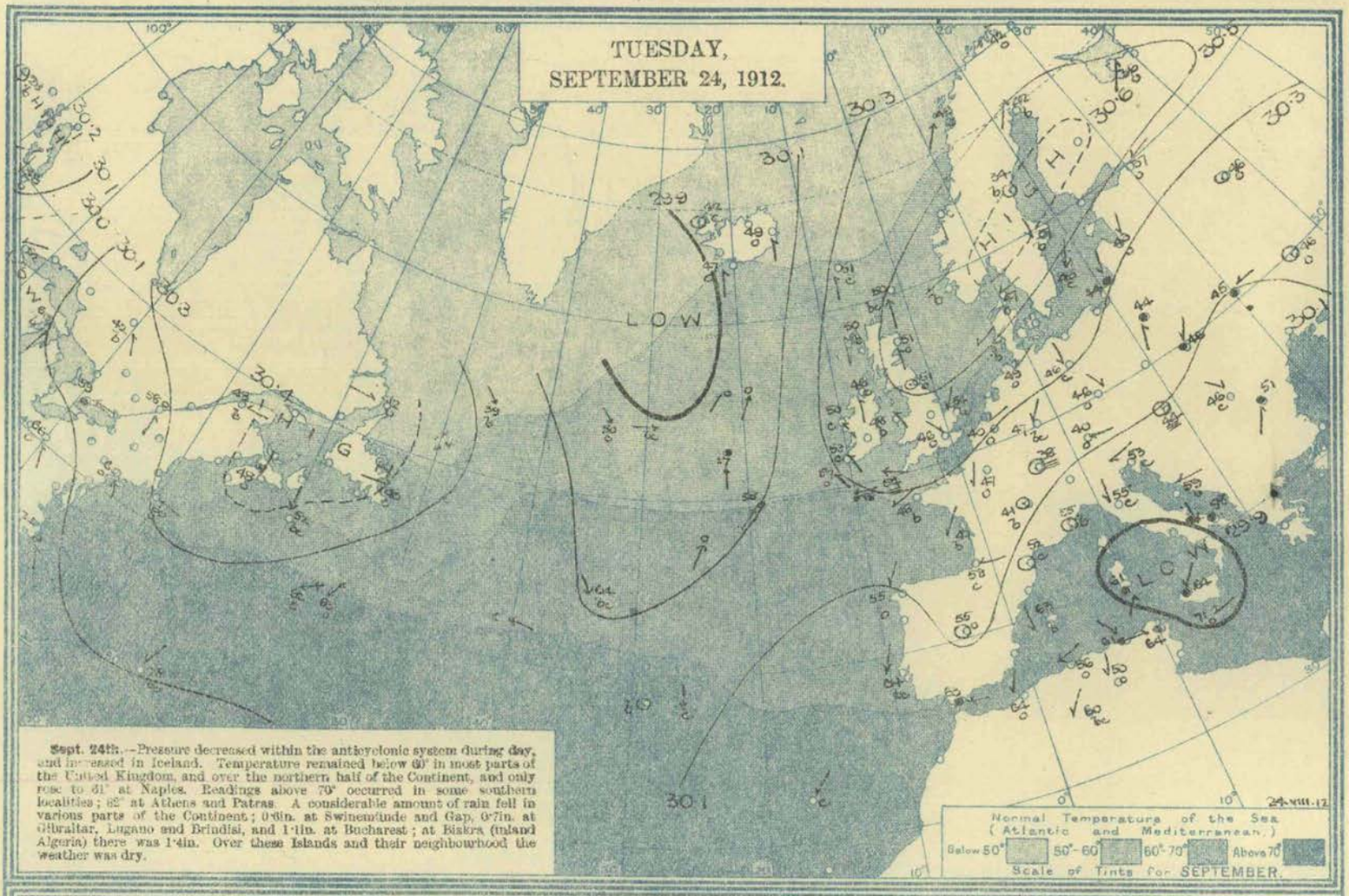
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



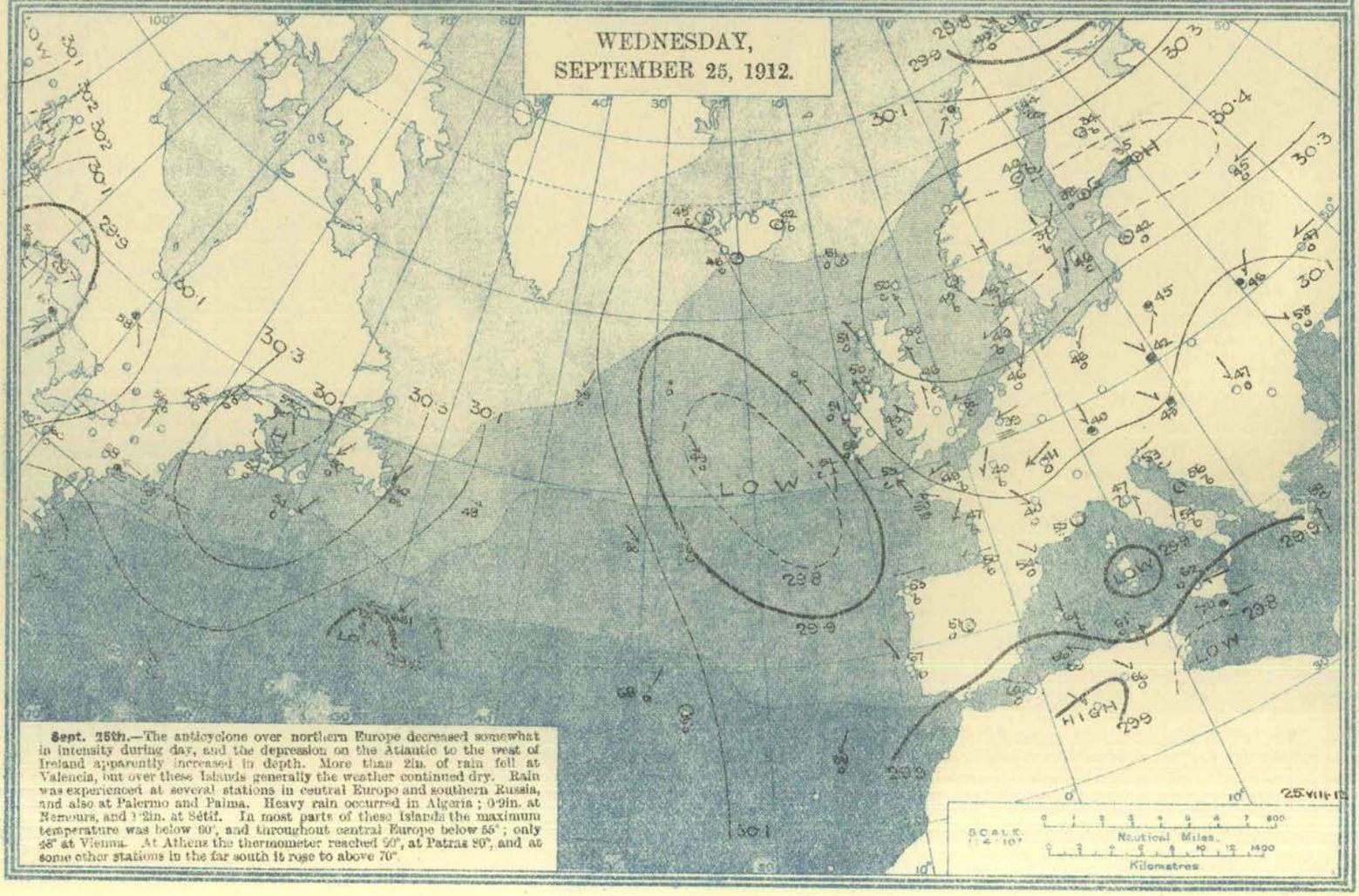
Sept. 22nd.—The anticyclone over the North Sea region maintained its position, while a depression in the far north of Europe became less deep, and another between Iceland and Greenland moved northward. Temperature rose to above 75° at a few places in the far south of our area, but remained below 65° over the greater part of Italy and France, and below 60° in the northern half of Europe generally, and in these Islands. At Buda-Pesth the highest reading was 50°. Rain was experienced in various parts of Hungary, Italy, Sicily, and at Malta, and also at St. Petersburg and Bucharest. Greatest measurement 0·7in. at Palermo.



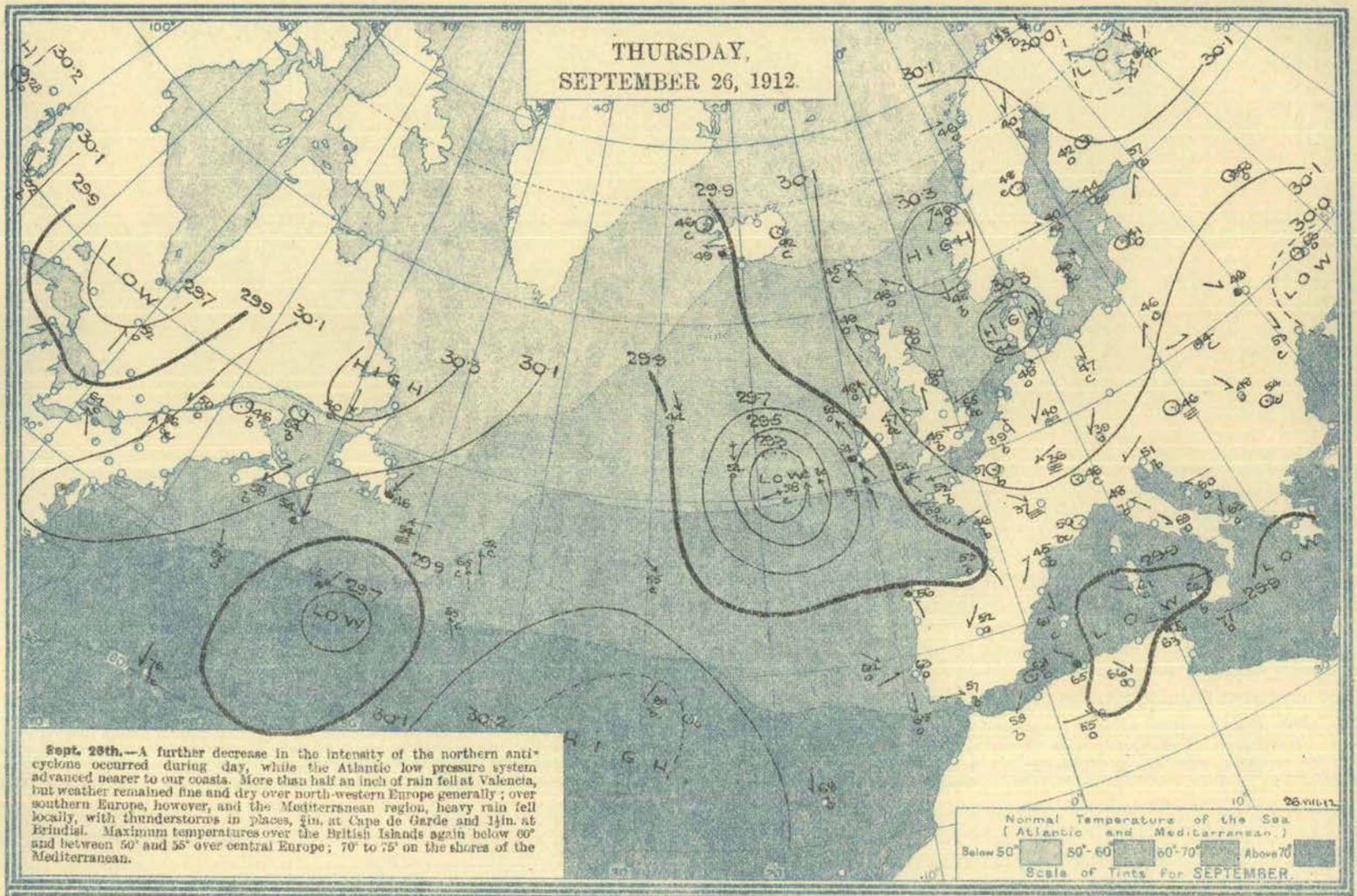
Sept. 23rd.—Little change occurred in the pressure distribution as a whole during day, but a depression centred near St. Petersburg dispersed. Temperature rose to a little above 60° in various parts of these Islands, the Netherlands, and northern France, but remained below that point over central Europe, and only touched 55° at Bucharest. At several stations in the south the thermometer rose above 70°. The United Kingdom, France, Switzerland, and Scandinavia were rainless, but a moderate to heavy quantity of rain occurred in various districts elsewhere; 0·5in. at Palermo, 0·6in. at St. Petersburg, 0·7in. at Bucharest, and 0·9in. at Gibraltar.



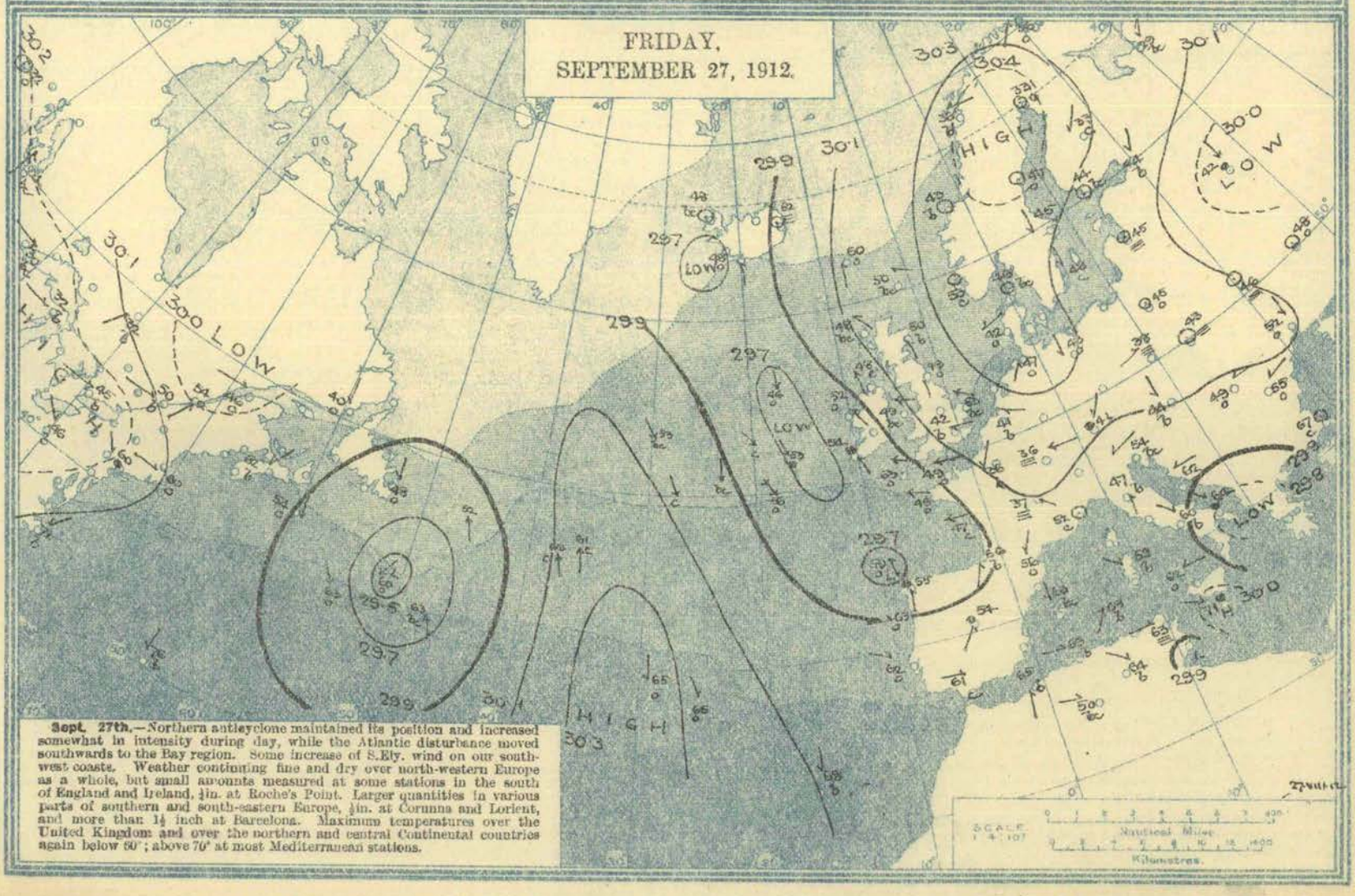
Sept. 24th.—Pressure decreased within the anticyclonic system during day, and increased in Iceland. Temperature remained below 60° in most parts of the United Kingdom, and over the northern half of the Continent, and only rose to 61° at Naples. Readings above 70° occurred in some southern localities; 82° at Athens and Patras. A considerable amount of rain fell in various parts of the Continent; 0·6in. at Swinemünde and Gap, 0·7in. at Gibraltar, Lugano and Brindisi, and 1·1in. at Bucharest; at Biskra (inland Algeria) there was 1·4in. Over these Islands and their neighbourhood the weather was dry.



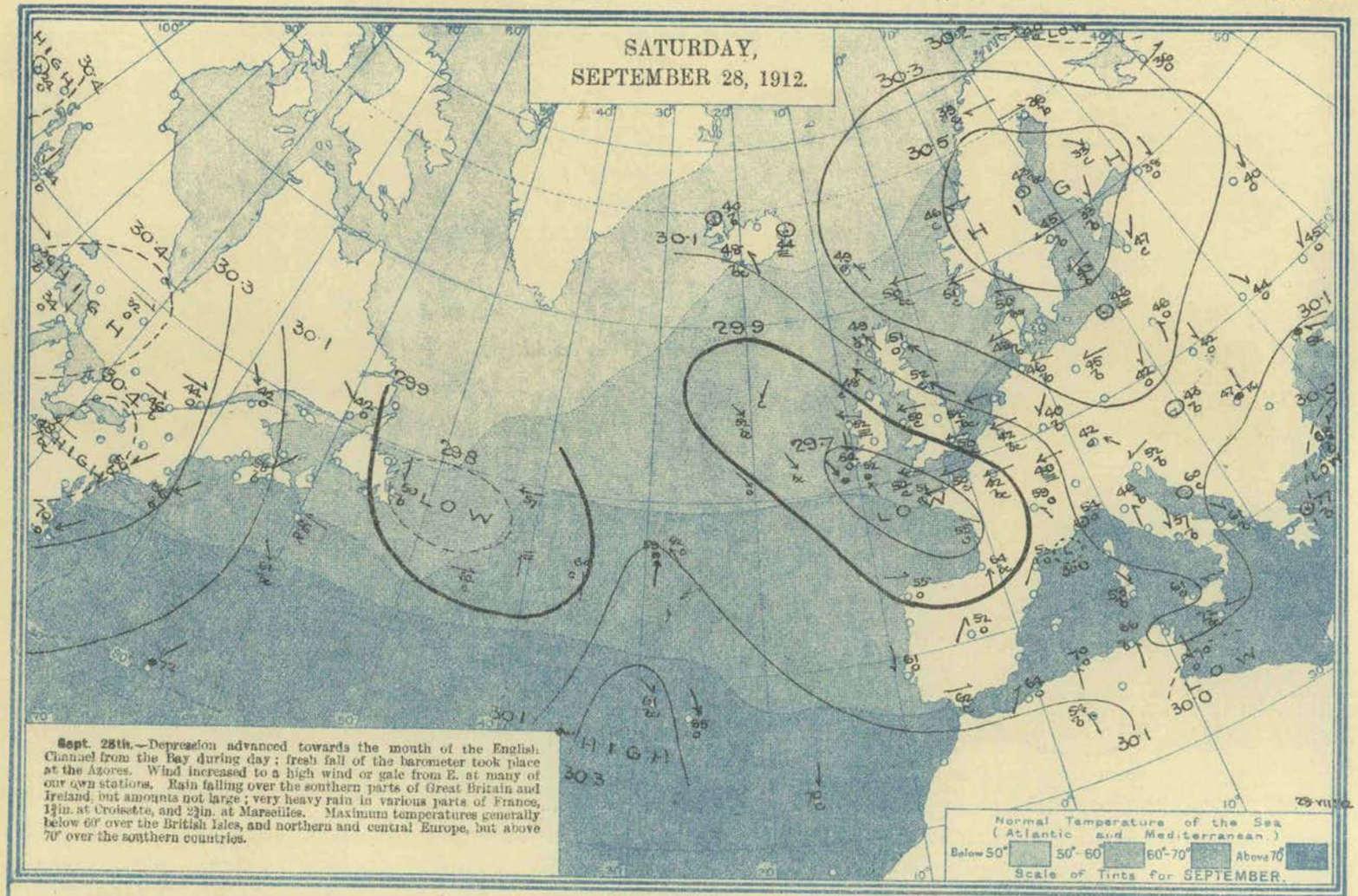
Sept. 25th.—The anticyclone over northern Europe decreased somewhat in intensity during day, and the depression on the Atlantic to the west of Ireland apparently increased in depth. More than 2in. of rain fell at Valencia, but over these Islands generally the weather continued dry. Rain was experienced at several stations in central Europe and southern Russia, and also at Palermo and Palma. Heavy rain occurred in Algeria; 0·9in. at Nemours, and 1·2in. at Sétif. In most parts of these Islands the maximum temperature was below 60°, and throughout central Europe below 55°; only 48° at Vienna. At Athens the thermometer reached 90°, at Patras 89°, and at some other stations in the far south it rose to above 70°.



Sept. 26th.—A further decrease in the intensity of the northern anticyclone occurred during day, while the Atlantic low pressure system advanced nearer to our coasts. More than half an inch of rain fell at Valencia, but weather remained fine and dry over north-western Europe generally; over southern Europe, however, and the Mediterranean region, heavy rain fell locally, with thunderstorms in places, ¾in. at Cape de Garde and 1¼in. at Brindisi. Maximum temperatures over the British Islands again below 60° and between 50° and 55° over central Europe; 70° to 75° on the shores of the Mediterranean.

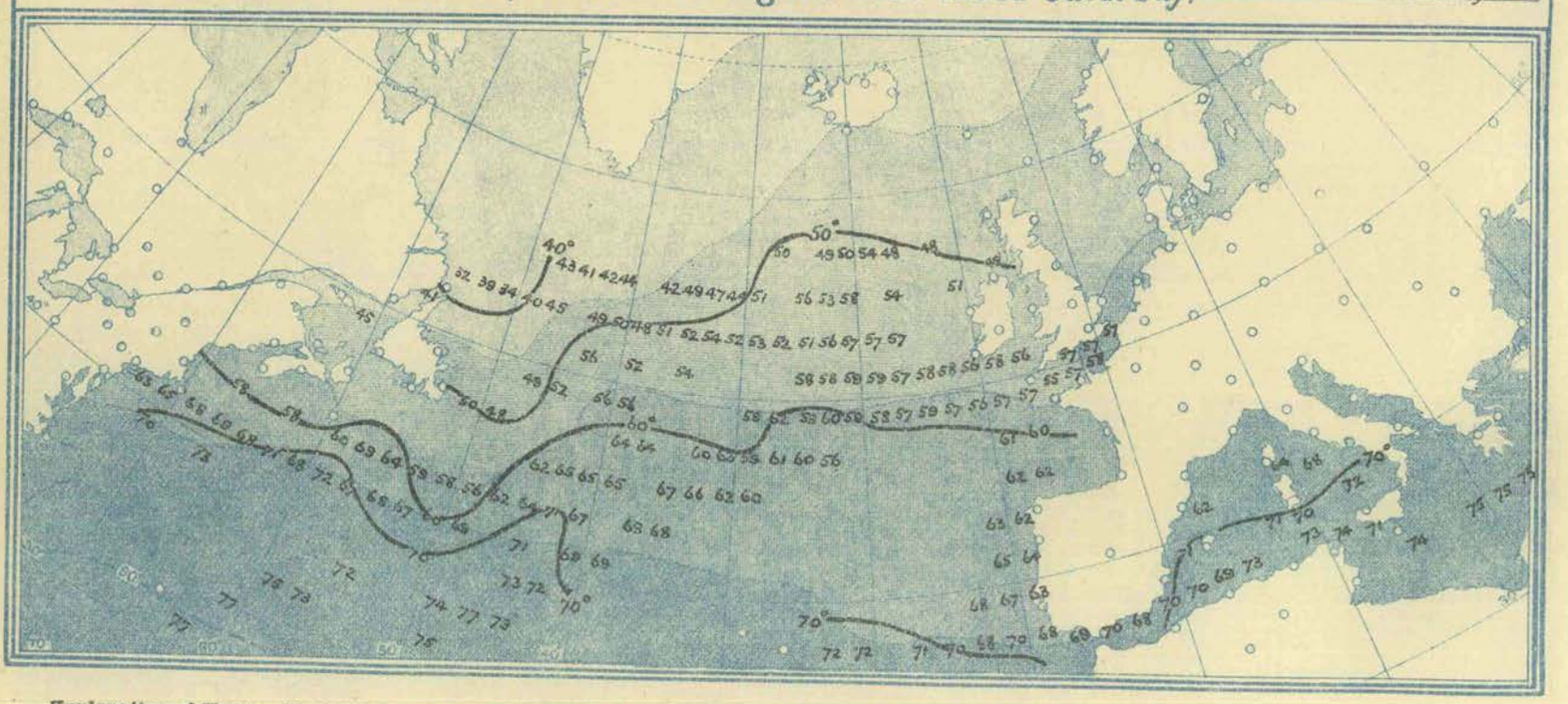


Sept. 27th.—Northern anticyclone maintained its position and increased somewhat in intensity during day, while the Atlantic disturbance moved southwards to the Bay region. Some increase of S.Ely. wind on our south-west coasts. Weather continuing fine and dry over north-western Europe as a whole, but small amounts measured at some stations in the south of England and Ireland, ¼in. at Roche's Point. Larger quantities in various parts of southern and south-eastern Europe, ½in. at Corunna and Lorient, and more than 1½ inch at Barcelona. Maximum temperatures over the United Kingdom and over the northern and central Continental countries again below 60°; above 70° at most Mediterranean stations.



Sept. 28th.—Depression advanced towards the mouth of the English Channel from the Bay during day; fresh fall of the barometer took place at the Azores. Wind increased to a high wind or gale from E. at many of our own stations. Rain falling over the southern parts of Great Britain and Ireland, but amounts not large; very heavy rain in various parts of France, 1⅜in. at Croisette, and 2⅜in. at Marseilles. Maximum temperatures generally below 60° over the British Isles, and northern and central Europe, but above 70° over the southern countries.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 28th. SEPTEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; • = rain; ▲ = hail; * = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 157

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* } No. 40. FORTIETH WEEK, SUNDAY, SEPTEMBER 29TH, TO SATURDAY, OCTOBER 5TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather was at first extremely unsettled, with heavy falls of rain in many parts of Great Britain, and thunderstorms at several of the Channel stations on Tuesday. After Tuesday a change took place, and in the latter half of the week the weather was mostly fair and dry. With the improved conditions sharp ground frosts occurred nightly over a wide area, and fog and mist was experienced in many places.

Temperature was below the average, the deficit varying from less than 2° in Scotland N. to nearly 4° in England N.E. and N.W. and Ireland S. and to 4½° in England S.W. The highest readings were observed in the earlier half of the week, when the thermometer rose slightly above 60° in most of the English districts and in Ireland S., and touched 65° at Jersey. The lowest readings occurred mostly on Oct. 4th or 5th, when the sheltered thermometer fell to 25° or less in many districts, and to 21° in England S.W. (at Llangammarch Wells). The lowest grass readings reported were 16° at Birmingham, 17° at Newton Rigg and 18° at Blackpool.

Mean Temperature of the Sea remained below the average,—considerably so in most places, and was again lower than in the corresponding week of last year.

Rainfall amounted to less than the normal in most of the western districts, and also in Scotland N. Elsewhere there was an excess, the fall in England E. being equal to more than three times, and in England S.E. to more than four times the average. Amounts exceeding an inch were recorded in many parts of southern England on Sept. 29th, and over a large portion of Great Britain on Sept. 30th; at Wisley, Hastings and Eastbourne the total for the two days amounting to as much as 2·7 in.; at Tunbridge Wells the total for the three days ended Oct. 1st was as much as 4·4 in. Over an inch was recorded at a few of the Channel stations on Oct. 1st.

Bright Sunshine was generally in excess of the average, but was deficient in Scotland N. and E. Over a large portion of England the mean daily duration amounted to at least 4½ hours, or to about 40 per cent. of the possible. In Scotland N. the daily duration was less than 2 hours, only 17 per cent. of the possible.

Barometer and Wind. In the early part of the week the weather was influenced by three depressions of considerable importance. The first of these, which came up from the southward at the close of the previous week, was followed quickly by another disturbance which passed eastwards along the Channel and north-eastwards across our south-eastern counties on the night of the Sept. 30th, when the wind increased to a gale from the Southward on our south coasts, and from the North-Eastward in Scotland. The third depression, which appeared off the mouth of the Channel early on Oct. 2nd, was forced southwards by a large anticyclone which extended down from Iceland. The central portion of the high pressure system moved south-eastward across the United Kingdom on Oct. 3rd and 4th, and at the end of the week was passing away in an easterly direction. During its progress, Northerly and North-Easterly breezes were at first experienced very generally, but a gradual shift to the South-Westward or Southward afterwards took place in Ireland and Scotland, the wind rising on Oct. 5th to the force of a gale on our extreme north-west coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 159.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient
	Rainfall ...	Light	Heavy	Heavy	Very heavy	Moderate	Very heavy	Light	Light	Heavy	Very light	Light	Very heavy
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 5 weeks from Sept. 1st, 1912.	Warmth ...	0 * 4	0 * 3	0 * 4	0 * 5	0 * 4	0 * 5	0 * 4	0 * 5	0 * 4	0 * 3	0 * 2	0 * 4
	Rainfall ...	1 * 4	3 * 2	1 * 2	2 * 3	0 * 4	1 * 4	1 * 4	0 * 4	1 * 4	0 * 4	0 * 4	1 * 3
	Sunshine ...	2 * 3	1 * 3	1 * 1	1 * 2	0 * 1	1 * 2	0 * 1	3 * 2	3 * 2	2 * 1	0 * 2	2 * 2

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(26635—24.) Wt. 173—814. 450. 10/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																							
a, Islands .. *p* Baltasound .. S	*53*	*29th*	*35*	*2nd*	*49·3*	*42·3*	*45·7*	—	*26*	*0*	•	•	47·5	•	•	•	*5*	*0·83*	—	*2·9*	—	*26*	—	*Baltasound.*
a Lerwick	53	29th	35	3rd	48·7	42·7	45·6	- 2·1	25	0	•	•	•	•	•	•	6	0·69	—	1·8	- 1·3	16	-12	Deerness.
a Stornoway	56	29th	35	3rd	51·6	43·3	47·3	- 1·0	37	0	•	•	•	•	•	•	6	0·50	- 0·69	3·0	- 0·2	27	- 2	Stornoway.
a Castlebay, Barra Isd.	*58*	*29, 30*	*38*	*3rd*	*53·1*	*45·9*	*49·4*	*- 0·2*	*52*	*0*	•	•	•	•	•	•	*5*	*0·45*	—	*4·2*	—	*37*	—	*Castlebay.*
b, Mainland. *a* Wick	54	4th	35	3rd	49·9	43·0	46·4	- 2·5	31	0	•	•	•	•	•	•	6	0·09	- 0·56	•	•	•	•	
p Strathpeffer ..	56	2nd	32	3rd	53·1	41·1	46·9	- 1·7	38	3	•	•	•	•	•	•	5	0·37	- 0·24	1·9	- 1·4	17	-13	Strathpeffer.
p Glencarron ..	54	29, 30	29	3rd	50·0	40·1	44·9	- 2·4	28	5	•	•	•	•	•	•	6	1·02	- 1·05	•	•	•	•	
p Fort Augustus..	56	29th	31	3rd	51·4	42·0	46·6	- 2·7	32	0	•	•	•	•	•	•	6	0·34	- 0·60	0·8	- 1·6	7	-14	Fort Augustus.
p Fort William ..	58	29th	28	3rd	52·9	42·3	47·4	- 2·9	38	0	•	•	•	•	•	•	4	0·38	- 1·39	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle.. S	56	29th	36	3rd	52·0	42·3	47·0	- 2·9	35	0	4	24	49·3	-3·0	51·4	-1·4	—	—	—	2·6	—	23	—	Crathes S.
a Nairn	55	29, 30	36	3, 4	51·3	41·0	46·0	- 2·9	32	3	•	•	•	•	•	•	5	0·56	- 0·14	*2·0*	—	*18*	—	*Gordon Castle.*
a Aberdeen ..	55	4th	36	3, 4	51·0	43·0	46·9	- 3·0	34	0	•	•	•	•	•	•	4	0·21	- 0·31	1·2	—	11	—	Nairn.
a Balmoral ..	54	28th	28	3rd	50·6	38·9	44·6	- 1·6	31	9	3	24	•	•	•	•	5	1·19	+ 0·57	2·6	- 1·0	23	- 9	Aberdeen.
p Crieff .. .. S	52	29-1, 3, 4	33	3, 4	51·1	39·1	44·9	- 5·0	32	8	•	•	•	•	•	•	6	2·75	+ 2·00	•	•	•	•	Balmoral.
a Leith	55	29th	35	3rd	52·0	43·0	47·4	- 3·8	38	0	•	•	•	•	•	•	3	1·55	+ 0·74	2·7	•	24	•	Balruddery.
p West Linton .. S	52	29, 30	26	4th	49·1	36·6	42·7	- 5·4	28	15	4	19	•	•	•	•	3	1·55	+ 1·10	•	•	•	•	
p Marchmont .. S	53	4th	31	4th	50·0	38·7	44·2	- 5·3	29	9	2	28	46·7	-4·9	•	•	5	2·08	—	*2·8*	—	*25*	—	*West Linton.*
																	4	2·61	+ 1·88	2·9	- 0·4	26	- 4	Marchmont.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	56	5th	30	4th	51·9	41·7	46·7	- 3·1	34	1	2	28	46·5	-5·1	50·2	-1·7	5	2·44	+ 1·73	3·4	—	30	—	Cockle Park.
a Shields	55	5th	33	5th	52·3	41·9	47·0	- 3·7	35	0	•	•	•	•	•	•	5	2·02	+ 1·42	•	•	•	•	*Newcastle.*
p Durham	53	30, 5	31	4th	50·7	39·1	44·7	- 5·3	31	8	1	26	•	•	•	•	5	1·46	+ 0·86	2·3	- 1·1	20	- 9	Durham.
a, North .. *p* Rounton	56	29th	30	4th	52·3	39·3	45·6	- 4·2	37	8	3	24	49·4	•	•	•	6	0·77	+ 0·22	•	•	•	•	Rounton.
a West Witton	*55*	*30th*	*27*	*4th*	*51·1*	*37·4*	*44·1*	—	*34*	*13*	3	26	48·3	•	51·1	•	*3*	*1·11*	—	•	•	•	•	*West Witton.*
p Scarborough ..	58	1st	36	4, 5	53·7	43·4	48·4	- 3·5	45	0	•	•	•	•	54·1†	•	4	0·94	+ 0·34	3·6	—	32	—	Scarborough.
p York	59	29th	30	4th	54·1	39·3	46·5	- 4·9	43	8	•	•	51·5	-3·2	53·8	-1·2	5	0·90	+ 0·38	3·2	- 0·1	28	- 1	York.
a Spurn Head	58	1st	37	3rd	53·0	43·7	48·2	- 4·5	43	0	3	24	49·0	-3·6	53·6	-0·7	5	0·96	+ 0·52	*3·4*	—	*30*	—	*Hull.*
b South .. *a* Lincoln	59	29, 30, 1	30	4th	54·9	40·3	47·4	- 4·1	45	5	•	•	49·4	-5·1	53·4	-1·7	2	0·50	0·00	•	•	•	•	Lincoln.
a Fulbeck	59	30, 1	28	4th	55·0	37·4	45·9	- 5·8	47	13	3	22	50·9	-3·7	53·7	-2·0	1	0·01	- 0·48	5·1	—	45	—	Rauceby.
											•	•	•	•	•	•	—	—	—	4·7	—	41	—	Skegness.
3. ENGLAND, E.											0	32	53·0	-3·5	55·8	-1·5	—	—	—	*4·9*	—	*43*	—	*Lowestoft.*
p Cromer	59	29th	37	5th	54·4	43·6	48·8	- 3·7	48	0	•	•	•	•	•	•	5	1·06	—	4·2	—	37	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth	58	29, 30, 1	37	5th	55·1	46·6	50·7	- 2·0	61	0	•	•	52·6	-4·0	55·9	-1·9	6	2·74	+ 2·15	4·4	—	39	—	Yarmouth.
a Norwich	59	29th	32	4, 5	54·9	42·1	48·3	- 5·0	44	0	3	25	51·4	•	•	•	5	1·29	—	*4·1*	—	*36*	—	*Norwich.*
p Geldeston	59	29, 30, 1	33	5th	55·9	42·9	49·2	- 3·1	50	0	•	•	•	•	•	•	6	1·59	+ 1·00	4·5	+ 0·2	40	+ 2	Geldeston.
p Cambridge	63	30th	29	5th	57·0	40·9	48·7	- 3·4	52	3	2	27	52·4	-3·4	55·4	-1·7	3	1·32	+ 0·83	5·4	+ 1·3	47	+11	Cambridge.
a Felixstowe	*59*	*1st*	*34*	*4th*	*55·1*	*43·9*	*49·3*	*- 4·2*	*51*	*0*	•	•	•	•	•	•	*4*	*2·25*	—	*5·9*	—	*52*	—	*Felixstowe.*
a Clacton-on-Sea ..	61	1st .	36	4, 5	55·4	44·4	49·7	- 3·7	54	0	1	30	53·4	-3·5	55·8	-1·8	3	2·06	—	4·7	—	41	—	Clacton.
b, South .. *a* Rothamsted	61	1st	28	5th	55·6	40·6	47·9	- 3·1	47	4	•	•	•	•	•	•	4	2·50	+ 1·90	4·5	+ 0·4	40	+ 4	Rothamsted.
a Shoeburyness	*62*	*1st*	*33*	*5th*	*55·7*	*43·1*	*49·2*	*- 5·0*	*59*	*0*	3	27	54·6	-3·9	•	•	*3*	*1·93*	+ *1·47*	*4·3*	—	*38*	—	*Southend.*
p Tottenham	63	1st	30	5th	56·3	42·1	49·0	- 4·4	49	0	2	26	•	•	56·6	-0·9	3	2·36	—	3·6	—	32	—	Tottenham.
4. MIDLAND COUNTIES.											3	26	48·7	-4·5	52·5	-1·4	—	—	—	*3·4*	—	*30*	—	*Huddersfield.*
a Harrogate	56	1st	32	4th	51·6	39·4	45·3	- 5·0	34	7	3	26	49·0	-3·7	51·5	-1·3	3	1·18	+ 0·52	3·8	—	33	—	Harrogate.
a Bawtry	60	29, 1	28	4th	54·4	39·3	46·6	- 4·6	44	8	3	23	49·9	•	52·7	•	2	0·48	0·00	3·3	+ 0·1	29	+ 1	Worksop.
p Buxton	*58*	*30th*	*27*	*4th*	*51·0*	*36·7*	*43·6*	*- 4·7*	*53*	*15*	4	23	48·7	-4·2	51·1	-1·9	*2*	*0·52*	- *0·45*	*4·2*	—	*37*	—	*Buxton.*
a East .. *a* Nottingham	60	30th	27	5th	55·1	40·3	47·5	- 4·3	46	5	2	23	48·4	-5·7	53·4	-2·1	2	0·43	- 0·09	4·0	—	35	—	Nottingham.
p Birmingham, Edgbsn.	59	29, 30	33	3rd	54·1	40·7	47·2	- 3·8	42	4	3	16	48·2	-4·5	51·2	-1·6	1	0·39	- 0·16	2·8	—	25	—	Birmingham.
a Raunds	61	30th	28	4th	56·6	39·7	47·9	- 3·9	51	6	3	26	52·2	•	•	•	2	0·80	—	•	•	•	•	Raunds.
a Oxford	61	29, 1	28	5th	56·3	40·4	48·1	- 4·0	49	4	3	22	•	•	•	•	3	1·54	+ 1·00	4·3	+ 0·3	38	+ 3	Oxford.
											3	24	49·8	-4·2	52·7	-1·2	—	—	—	3·7	—	33	—	Sheffield.
a Cheadle	60	30th	31	2, 4	54·3	38·3	46·1	- 3·9	44	10	5	20	•	•	•	•	1	0·60	- 0·07	•	•	•	•	Cheadle.
p Shrewsbury	61	29, 1, 2	25	5th	57·9	38·1	47·7	- 4·5	56	11	3	25	•	•	•	•	1	0·42	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	60	30, 1	26	5th	55·4	38·3	46·6	- 5·4	48	10	3	25	•	•	•	•	2	0·85	+ 0·32	•	•	•	•	Hereford.
a Cirencester	60	29, 1	26	5th	54·6	3?·6	46·9	- 4·7	44	7	2	25	50·9	•	53·2	•	3	1·04	+ 0·40	4·9	+ 1·0	43	+ 9	Cirencester.
a Bath	62	1st	27	5th	57·3	39·6	48·2	- 5·3	53	7	•	•	53·3	-4·1	57·1	-1·4	4	1·27	+ 0·66	4·9	—	43	—	Bath.
5. ENGLAND, S.E.											1	27	53·2	-2·9	56·2	-1·2	—	—	—	•	•	•	•	Canterbury.
p Kew	63	30th	30	5th	56·3	43·1	49·5	- 3·3	53	0	3	21	52·1	-3·9	54·6	-1·7	4	2·28	+ 1·74	4·5	+ 0·7	40	+ 7	Kew.
a Marlborough	60	1st	24	5th	54·6	38·3	46·2	- 4·4	45	10	3	21	•	•	•	•	4	2·11	+ 1·53	4·1	+ 0·6	36	+ 5	Marlborough.
a Margate	62	29, 1	39	5th	57·0	47·4	52·1	- 2·4	71	0	•	•	52·7	-2·7	54·9	-1·8	5	2·54	+ 2·00	4·6	+ 0·5	40	+ 4	Margate.
a Wisley, Surrey ..	63	30th	28	5th	55·7	40·7	48·0	- 5·2	47	4	3	24	52·0	-3·8	54·7	-2·4	4	3·32	—	4·7	—	41	—	Wisley
a Swarraton	60	29, 30	27	5th	55·0	40·3	47·4	- 4·0	45	5	1	29	54·3	-2·9	56·4	-0·9	3	3·11	+ 2·42	5·1	—	45	—	Worthing.
a Tunbridge Wells ..	60	29, 1	31	4th	54·9	41·0	47·7	- 4·6	44	3	2	28	52·1	-4·1	•	•	4	4·42	+ 3·72	5·2	+ 0·9	46	+ 8	Tunbridge Wells.
a Dungeness	60	29, 30, 1	?32	5th	55·9	43·9	49·7	- 5·2	54	0	•	•	•	•	•	•	4	2·94	+ 2·34	4·8	—	42	—	Littlestone.
p Hastings..	61	29, 1	38	3, 4	56·4	45·0	50·5	- 4·0	60	0	0	33	53·8	•	56·7	•	4	3·13	+ 2·37	*5·0*	+ *0·4*	*44*	+ *3*	*Hastings.*
p Southampton	63	30th	32	5th	57·1	42·9	49·8	- 4·4	55	0	2	28	•	•	•	•	3	3·11	+ 2·43	4·6	+ 0·2	40	+ 2	Southampton
a Ventnor	61	30th	38	3, 4	56·6	45·9	51·1	- 5·0	64	0	•	•	•	•	•	•	4	2·85	+ 2·25	4·5	- 0·2	40	- 2	Ventnor.
											1	29	53·4	-3·9	56·1	-2·6	—	—	—	*5·2*	—	*46*	—	*Portsmouth.*
											•	•	55·0	•	56·8	•	—	—	—	5·1	+ 0·5	45	+ 4	Eastbourne.
											•	•	52·8	•	54·8	•	—	—	—	*4·5*	—	*40*	—	*Bournemouth.*
LONDON.											1	30	•	•	56·7	•	—	—	—	*4·7*	+ *0·1*	*41*	+ *1*	*Brighton.*
a Westminster	*63*	*30, 1*	*38*	*3, 4, 5*	*57·3*	*45·1*	*51·0*	*- 1·6*	*63*	*0*	1	28	•	•	•	•	*3*	*2·18*	+ *1·65*	*3·5*	+ *0·6*	*31*	+ *5*	*Westminster.*
a Greenwich	*64*	*30, 1*	*30*	*5th*	*57·7*	*42·3*	*49·8*	*- 4·0*	*55*	*0*	3	22	•	•	•	•	*4*	*2·28*	+ *1·78*	*4·2*	+ *0·2*	*37*	+ *2*	*Greenwich.*
a Hampstead	*62*	*30th*	*35*	*3, 4*	*55·1*	*43·0*	*48·9*	—	*48*	*0*	3	20	•	•	•	•	*4*	*2·33*	—	*4·2*	—	*37*	—	*Hampstead.*
a Camden Square ..	*65*	*1st*	*31*	*5th*	*58·6*	*42·7*	*50·4*	—	*59*	*0*	1	30	•	•	•	•	*4*	*2·30*	—	*3·9*	—	*34*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																							
a Poltalloch .. S	56	1st	25	3rd	52·4	41·3	46·7	- 3·6	36	2	•	•	•	•	•	•	2	0·17	- 0·97	•	•	•	•	
p Glasgow	53	29, 30, 1	33	3rd	50·1	41·9	45·9	- 3·9	28	0	3	20	•	•	•	•	3	0·28	- 0·49	2·3	- 0·4	20	- 4	Glasgow.
p Rothesay ..	56	30th	32	4th	53·4	41·6	47·3	- 3·4	39	1	•	•	•	•	51·1	-1·6	3	0·14	- 0·86	•	•	•	•	
a Kilmarnock ..	57	29th	22	3rd	53·0	38·6	45·6	- 4·6	39	10	•	•	•	•	•	•	3	0·15	—	*2·1*	—	*19*	—	*Kilmarnock.*
a Colmonell ..	58	29th	28	3rd	54·3	38·6	46·2	- 4·7	44	10	3	24	•	•	•	•	3	0·25	- 0·73	•	•	•	•	
p Dumfries ..	57	30th	29	4th	52·9	39·7	46·1	- 4·5	38	6	4	23	48·9	•	53·1	•	3	0·18	- 0·60	*2·7*	—	*24*	—	*Dumfries.*
p Cally, Gatehouse	58	29, 2	27	4th	55·6	38·1	46·6	- 3·3	49	11	•	•	•	•	•	•	3	0·46	- 0·54	•	•	•	•	
b I. OF MAN.																							
p Douglas	56	29, 1, 2	35	4th	53·7	42·9	48·1	- 3·0	43	0	1	28	•	•	•	•	3	0·36	- 0·62	4·9	+ 1·0	43	+ 9	Douglas.
											4	19	48·0	-4·3	51·8	-1·2	—	—	—	*2·6*	—	*23*	—	*Burnley.*
											2	28	•	•	•	•	—	—	—	4·9	—	43	—	Hoylake.
7. *a*, ENGLAND, N.W.																							
p Aspatria	60	30th	27	3rd	53·6	38·1	45·6	- 4·8	42	11	2	21	49·1	•	52·2	•	3	0·36	- 0·54	3·5	—	31	—	Aspatria.
p Newton Rigg	57	30, 1	26	4th	52·7	36·1	41·2	- 4·8	40	17	4	17	49·0	-4·7	51·3	-2·3	3	0·30	- 0·50	3·1	- 0·2	27	- 2	Newton Rigg.
p Stonyhurst	57	30th	31	4th	53·4	39·6	46·3	- 3·9	40	7	2	34	•	•	•	•	3	0·28	- 0·75	3·8	+ 0·3	33	+ 3	Stonyhurst.
p Blackpool	58	29, 30, 1	33	4th	54·0	41·1	47·4	- 4·7	42	3	4	18	50·4	•	53·2	•	2	0·20	- 0·62	4·8	+ 1·3	42	+11	Blackpool.
p Manchester (Whit. Pk.)	*61*	*29, 30*	*31*	*4th*	*55·0*	*41·1*	*47·8*	—	*44*	*3*	?	?	•	•	•	•	2	0·12	—	*3·0*	—	*26*	—	*Whit. Park.*
a Liverpool (Bidston) ..	60	29th	36	3rd	54·1	42·3	48·0	- 4·2	42	0	•	•	•	•	•	•	2	0·36	- 0·36	*4·7*	—	*41*	—	*Liverpool.*
a Hawarden Bridge ..	62	29th	33	4th	56·0	41·0	48·3	- 4·6	48	3	3	23	48·6	-8·7	53·3	-3·1	2	0·44	- 0·14	*5·0*	+ *1·5*	*44*	+*13*	*Southport.*
											2	30	49·4	-5·3	54·3	-1·8	—	—	—	*3·3*	—	*29*	—	*Manchester City).*
b, NORTH WALES.																							
p Llandudno	58	29, 30	36	4th	54·3	44·0	49·0	- 4·3	49	0	•	•	•	•	•	•	1	0·22	- 0·49	5·2	+ 1·7	46	+15	Llandudno.
a Holyhead	59	29th	38	4th	54·7	45·6	50·0	- 3·0	56	0	•	•	•	•	•	•	2	0·40	- 0·38	5·8	—	51	—	Aberdovey.
p Bettws-y-Coed ..	60	29th	29	4th	55·0	38·7	46·6	- 6·0	46	9	2	28	48·3	-4·4	52·0	-1·3	2	0·94	—	5·5	—	48	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In. *	In. *	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				5·9	—	52	—	Aberystwyth.
a Llangammarch Wells	58	29th	21	4th	54·3	34·3	44·0	− 6·2	46	22	3	19	48·7	−5·3	52·2	−1·9	2	0·43	—	4·6	—	40	—	Llangammarch
a Pembroke	58	1st	39	3,4,5	54·6	43·6	48·9	− 5·0	48	0	*	*	°	°	°	°	3	0·91	+ 0·13	3·5	− 0·5	31	− 5	Pembroke.[Wells
p Cardiff	60	1st	31	4,5	55·1	39·4	47·0	− 5·0	46	7	2	23	50·8	−4·3	54·3	−2·2	3	0·97	+ 0·02	*4·9*	—	*43*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	61	29, 1	33	4, 5	55·7	41·4	48·3	− 4·5	47	2	2	27	*	*	*	*	3	1·13	+ 0·40	*4·5*	—	*40*	—	*Clifton.*
a Shaftesbury	57	29, 30, 1	31	3rd	53·0	41·0	46·8	− 5·2	38	3	*	*	50·4	*	54·5	*	3	2·34	+ 1·63	*	*	*	*	Shaftesbury.
a Arlington	57	30, 1	31	4th	53·1	39·7	46·2	− 5·5	39	6	*	*	52·7	*	*	*	3	1·44	+ 0·15	4·6	+ 0·4	40	+ 3	Newquay.
a Cullompton	62	1st	27	5th	56·7	39·9	48·1	− 4·2	52	6	2	28	52·9	*	*	*	4	1·81	+ 1·09	3·9	+ 0·2	34	+ 2	Cullompton.
a Portland	59	29th	39	3rd	54·9	46·3	50·5	− 4·4	60	0	*	*	*	*	*	*	3	2·89	—	*4·1*	—	*36*	—	*Weymouth.*
p Plymouth	58	29th	35	5th	56·1	42·7	49·2	− 4·9	59	0	2	25	52·7	−4·4	*	*	4	1·53	+ 0·80	4·4	+ 0·3	39	+ 2	Plymouth.
p Falmouth	58	1st	40	4th	54·3	45·0	49·5	− 4·7	53	0	*	*	*	*	*	*	4	0·86	− 0·09	4·4	+ 0·2	39	+ 2	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	55	30th	40	3rd	52·4	44·7	48·4	− 3·1	45	0	*	*	*	*	*	*	2	0·03	− 0·68	*	*	*	*	* *
a Blacksod Point ..	56	29, 30, 1	42	4th	54·4	46·1	50·1	− 2·2	57	0	*	*	*	*	*	*	1	0·40	− 0·68	*	*	*	*	* *
p Markree Castle ..	58	29, 30	27	4th	55·3	39·4	47·1	− 2·7	47	7	3	21	51·4	*	53·7	*	2	0·20	− 0·70	2·6	− 0·6	23	− 5	Markree Castle.
a Birr Castle	58	30th	26	4th	54·3	36·9	45·3	− 5·2	45	14	*	*	*	*	*	*	3	0·12	− 0·49	*3·8*	+ *0·1*	*33*	+ *1*	*Birr Castle.*
b, East .. { *p* Armagh	56	29th	29	3rd	52·9	38·7	45·6	− 4·9	39	9	3	23	50·8	−4·0	53·5	−1·7	2	0·28	− 0·32	3·5	+ 0·2	31	+ 1	Armagh.
a Donaghadee	55	29th	35	4, 5	52·6	45·3	48·8	− 3·1	48	0	*	*	*	*	*	*	2	0·16	− 0·46	*	*	*	*	* *
											2	29	51·6	−3·5	53·4	−2·1	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	19	*	*	*	*				3·3	− 0·7	29	− 7	Phœnix Park.
a, East .. { *p* Dublin, City	56	29, 30	32	4th	53·6	43·7	48·5	− 3·9	46	0	1	28	*	*	*	*	2	0·30	− 0·25	*	*	*	*	Dublin City.
a Kilkenny	60	1st	25	4th	55·4	40·4	47·7	− 3·6	47	4	*	*	*	*	*	*	2	0·13	− 0·48	*	*	*	*	* *
a Waterford	60	1st	29	4th	56·0	41·3	48·4	− 3·5	48	2	*	*	*	*	*	*	2	0·14	− 0·66	*	*	*	*	* *
b, West .. { *a* Birr Castle	58	30th	26	4th	54·3	36·9	45·3	− 5·2	45	14	*	*	*	*	*	*	3	0·12	− 0·49	3·8	+ 0·1	33	+ 1	Birr Castle.
a Foynes	58	29th	31	4th	54·9	41·4	48·0	− 4·2	45	2	*	*	*	*	*	*	1	0·04	− 0·73	*	*	*	*	* *
a Cahir	58	30th	25	4th	54·0	40·4	47·0	− 5·3	42	4	*	*	*	*	*	*	2	0·12	—	*	*	*	*	* *
a Killarney	61	1st	30	4th	56·2	39·3	47·5	− 4·6	50	8	*	*	*	*	*	*	2	0·19	− 0·90	*	*	*	*	* *
a Valencia	59	1st	34	4th	55·6	41·0	48·1	− 5·7	47	3	*	*	*	*	*	*	3	0·15	− 0·95	5·5	+ 1·7	48	+15	Valencia.
a Roche's Point ..	58	1st	37	4th	55·4	44·0	49·5	− 3·9	53	0*	*	*	*	*	*	*	5	0·84	+ 0·04	4·9	—	43	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	61	2nd	41	4th	56·7	46·1	51·2	− 4·7	64	0	*	*	*	*	*	*	4	0·37	− 0·35	5·1	+ 0·5	45	+ 5	Scilly.
a Jersey, St. Aubins ..	65	2nd	40	5th	59·3	49·3	54·2	− 2·9	85	0	*	*	*	*	*	*	3	2·60	+ 1·79	4·2	− 0·8	37	− 7	St. Heliers.
a Guernsey (Villa Carey)	63	2nd	45	5th	59·0	50·0	54·4	− 2·0	87	0	0	37	55·3	−3·5	57·8	−2·2	4	3·61	+ 2·76	4·2	− 0·4	37	− 4	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·1 hrs. 45 °/₀; Ramsgate, 4·7 hrs. 41 °/₀; Rhyl, 5·0 hrs. 44 °/₀; Salcombe, 4·8 hrs. 42 °/₀; Tenby, 4·5 hrs. (+0·3) 40 °/₀ (+3 °/₀); Torquay, 4·3 hrs. (−0·1) 38 °/₀ (−1 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, October 5th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	51	49	49·9	−1·2	SCOTLAND, W. ..	Lamlash	53	49	51·5	−2·4
	Kirkwall	52	47	49·6	−1·5		Ballantrae	53	48	50·4	−2·8
	Wick	?49	?48	?48·4	−3·7	ENGLAND, N.W. ..	Port Erin	55	53	53·7	−1·7
SCOTLAND, E. ..	Cromarty	52	45	49·7	−3·3		Newquay	57	54	55·9	−2·7
	Pennan Bay	52	51	51·6	−0·7	ENGLAND, S.W. ..	Scilly	57	55	55·7	—
	Aberdeen, Cove Bay	52	50	51·1	−0·9		Plymouth‡	56	55	55·6	−1·8
ENGLAND, N.E. ..	Burnmouth, Berwick	48	46	47·4	−4·4		Salcombe	57	52	55·5	−2·9
	Scarborough	54	48	50·9	−2·3	IRELAND, N.W. ..	Sheephaven	54	51	51·9	−3·9
ENGLAND, E. ..	Shipwash Lightship	58	48	55·5	−3·5		Teelin	55	49	52·6	−3·7
	Margate‡	56	55	55·3	−3·5	IRELAND, S.W. ..	Cleggan	55	52	53·8	−0·9
ENGLAND, S.E. ..	Eastbourne‡	56	53	54·0	−5·2	IRELAND, E.	Seafield	53	48	51·5	−4·7
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked $ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTIETH WEEK—September 29th to October 5th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Rainfall. Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Sunshine. Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	58	28	51·1	42·1	46·4	− 1·7	31	− 16	0	− 3	6	+ 1	0·48	−0·89	1·9	−0·8	17	− 7
Eastern.																		
1. SCOTLAND, EAST ...	56	26	50·9	40·3	45·5	− 3·0	32	− 19	5	+ 1	4	− 1	1·56	+0·80	2·4	−0·8	21	− 7
2. ENGLAND, N.E.	59	28	53·1	40·7	46·7	− 3·7	38	− 23	4	+ 2	4	0	1·11	+0·58	3·7	+0·7	33	+ 1
3. ENGLAND, EAST ...	63	28	55·5	42·9	49·0	− 2·5	49	− 20	0	− 2	4	0	1·87	+1·29	4·5	+0·6	39	+ 5
4. MIDLAND COUNTIES ...	62	25	55·2	39·4	47·1	− 3·2	47	− 15	7	+ 4	2	− 2	0·82	+0·20	4·0	+0·5	35	+ 4
5. ENGLAND, S.E.	63	24	56·0	42·9	49·2	− 3·7	50	− 22	0	− 1	4	0	2·98	+2·28	4·7	+1·7	41	+ 7
Western.																		
6. SCOTLAND, WEST ...	58	22	53·2	40·3	46·6	− 3·3	39	− 18	5	+ 3	3	− 2	0·25	−0·95	3·6	+0·4	32	+ 4
7. ENGLAND, N.W.	62	26	54·2	40·7	47·3	− 3·8	43	− 22	4	+ 3	2	− 2	0·39	−0·54	4·6	+1·4	40	+12
8. ENGLAND, S.W.	62	21	54·8	41·3	47·9	− 4·5	44	− 30	2	+ 2	3	− 2	1·43	+0·43	4·5	+0·7	39	+ 6
9. IRELAND, NORTH ...	58	26	53·7	41·9	47·6	− 2·7	40	− 19	0	− 1	2	− 3	0·20	−0·72	3·1	0·0	27	0
10. IRELAND, SOUTH ...	61	25	55·0	40·9	47·8	− 3·8	45	− 23	3	+ 2	2	− 2	0·23	−0·55	4·4	+0·6	38	+ 6
11. ENGLISH CHANNEL ...	65	40	58·3	48·5	53·3	− 2·4	79	− 17	0	0	4	0	2·19	+1·34	4·5	0·0	40	0

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 5 Weeks, September 1st to October 5th, 1912.

0. SCOTLAND, NORTH ...	66	28	*	*	*	*	239	− 82	1	− 5	17	− 7	2·94	−2·65	3·5	+0·3	28	+ 2
Eastern.																		
1. SCOTLAND, EAST ...	72	26	*	*	*	*	254	− 91	18	+10	12	− 8	3·42	+0·49	3·2	−0·6	26	− 5
2. ENGLAND, N.E.	70	28	*	*	*	*	302	−105	4	+ 2	13	− 4	2·02	−0·32	3·9	−0·4	31	− 4
3. ENGLAND, EAST ...	69	28	*	*	*	*	350	−111	0	− 3	12	− 4	2·70	+0·30	4·2	−0·6	34	− 5
4. MIDLAND COUNTIES ...	70	25	*	*	*	*	314	−108	11	+ 6	7	− 9	1·24	−1·27	3·7	−0·5	30	− 5
5. ENGLAND, S.E.	68	24	*	*	*	*	355	−148	0	− 1	8	− 8	3·23	+0·43	4·6	−0·3	37	− 2
Western.																		
6. SCOTLAND, WEST ...	67	22	*	*	*	*	289	− 86	5	+ 2	11	− 9	2·88	−2·11	4·0	0·0	32	0
7. ENGLAND, N.W.	66	26	*	*	*	*	310	−116	4	+ 3	11	− 7	1·52	−2·16	4·1	0·0	33	0
8. ENGLAND, S.W.	72	21	*	*	*	*	356	−113	2	+ 2	8	−11	1·89	−1·97	4·6	0·0	38	0
9. IRELAND, NORTH ...	67	26	*	*	*	*	318	− 76	0	− 1	10	−12	1·03	−2·84	3·6	0·0	29	− 1
10. IRELAND, SOUTH ...	72	25	*	*	*	*	366	− 70	3	+ 2	11	− 8	1·02	−2·42	4·0	−0·3	33	− 1
11. ENGLISH CHANNEL ...	68	40	*	*	*	*	477	− 95	0	0	10	− 9	2·64	−0·60	5·3	−0·4	43	− 4

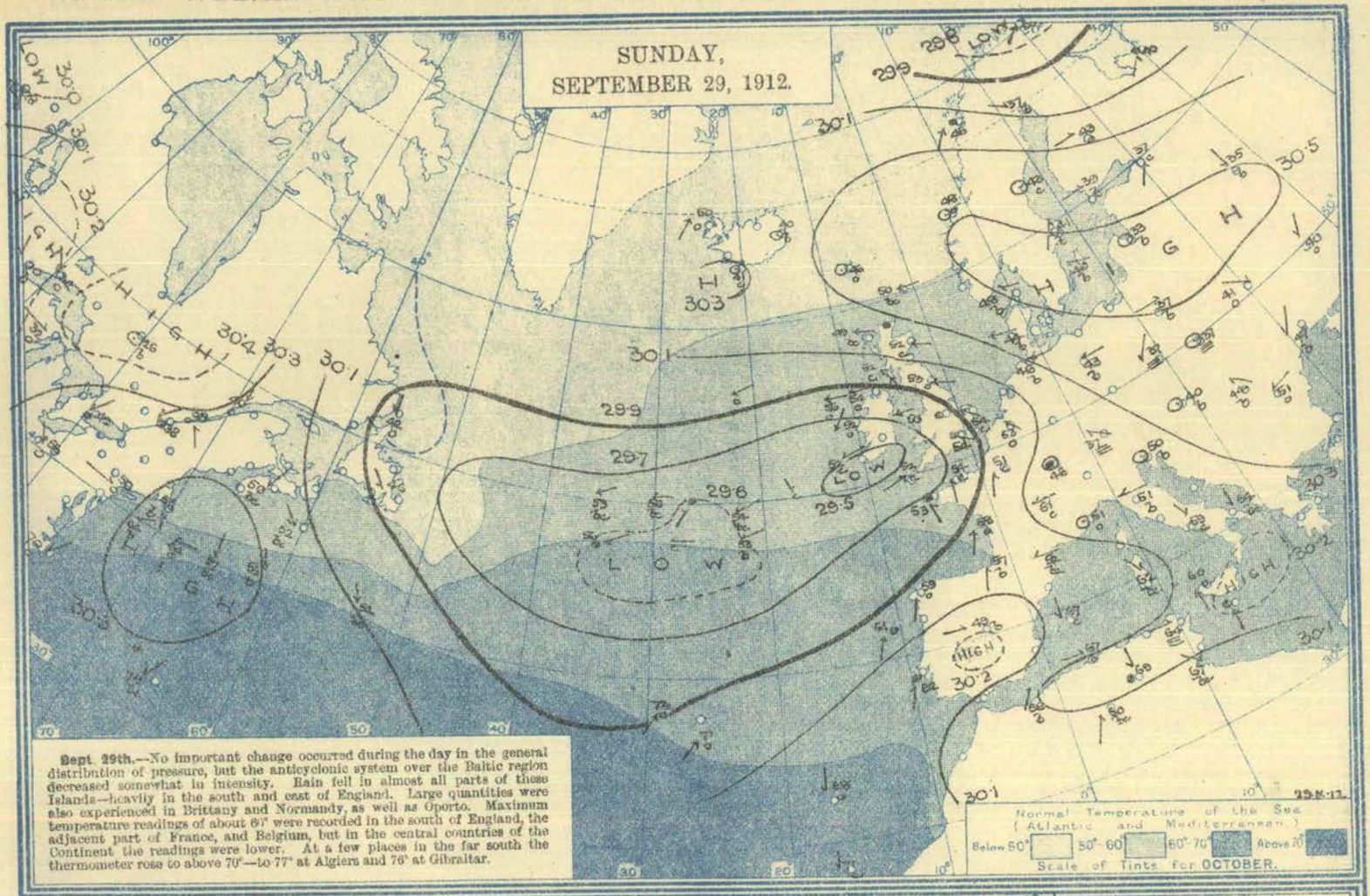
THE YEAR.—Aggregates, &c., for the Period of 40 Weeks, December 31st, 1911, to October 5th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1725	−150	428	−135	177	− 7	33·59	− 3·41	3·3	−0·3	25	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1923	−192	537	− 91	159	+ 6	24·16	+ 1·66	3·2	−1·0	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2293	− 64	377	−100	157	+20	24·54	+ 6·74	3·5	−1·1	27	− 8
3. ENGLAND, EAST ...	91	14	*	*	*	*	2784	+ 63	274	−250	146	+14	23·17	+ 5·86	4·4	−0·6	33	− 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2538	−120	384	−154	143	+12	26·65	+ 7·38	3·6	−0·8	27	− 7
5. ENGLAND, S.E.	88	13	*	*	*	*	2800	−122	218	−164	137	+11	24·59	+ 5·68	4·5	−0·6	35	− 4
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2152	−126	334	− 94	159	− 1	32·26	− 1·58	3·7	−0·7	28	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2362	−131	302	− 85	156	+10	27·61	+ 2·72	3·8	−0·6	29	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2600	−161	191	−110	163	+19	34·91	+ 8·40	4·0	−0·9	30	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2168	−213	237	−109	155	−19	27·51	− 0·22	3·5	−0·5	27	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2524	−198	170	− 90	182	+28	31·96	+ 3·34	3·6	−0·9	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3184	+ 26	44	− 65	163	+11	30·35	+ 8·43	5·0	−1·0	39	− 7

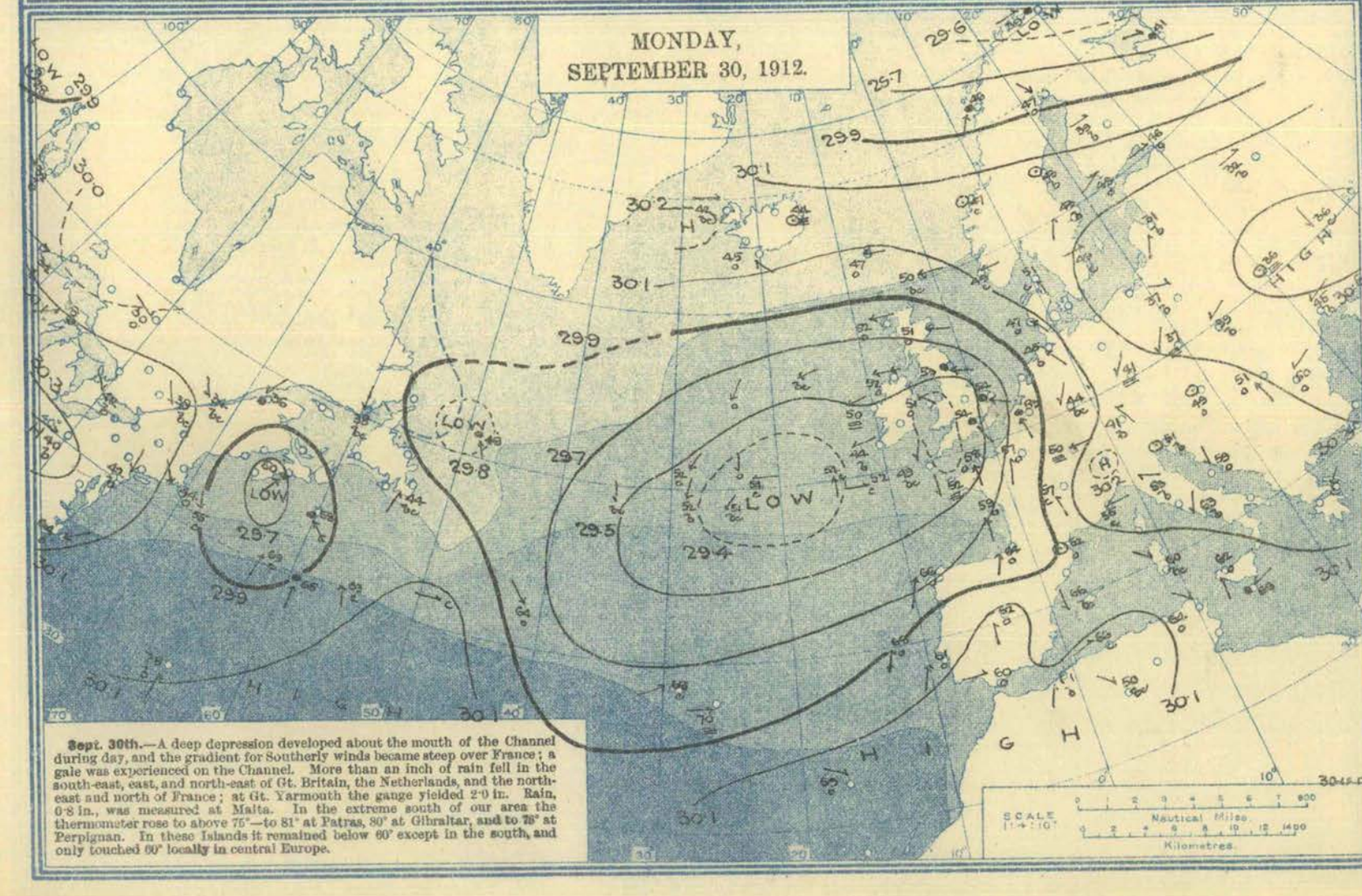
M.O., October 9, 1912.

NOTES ON TABLE IV.

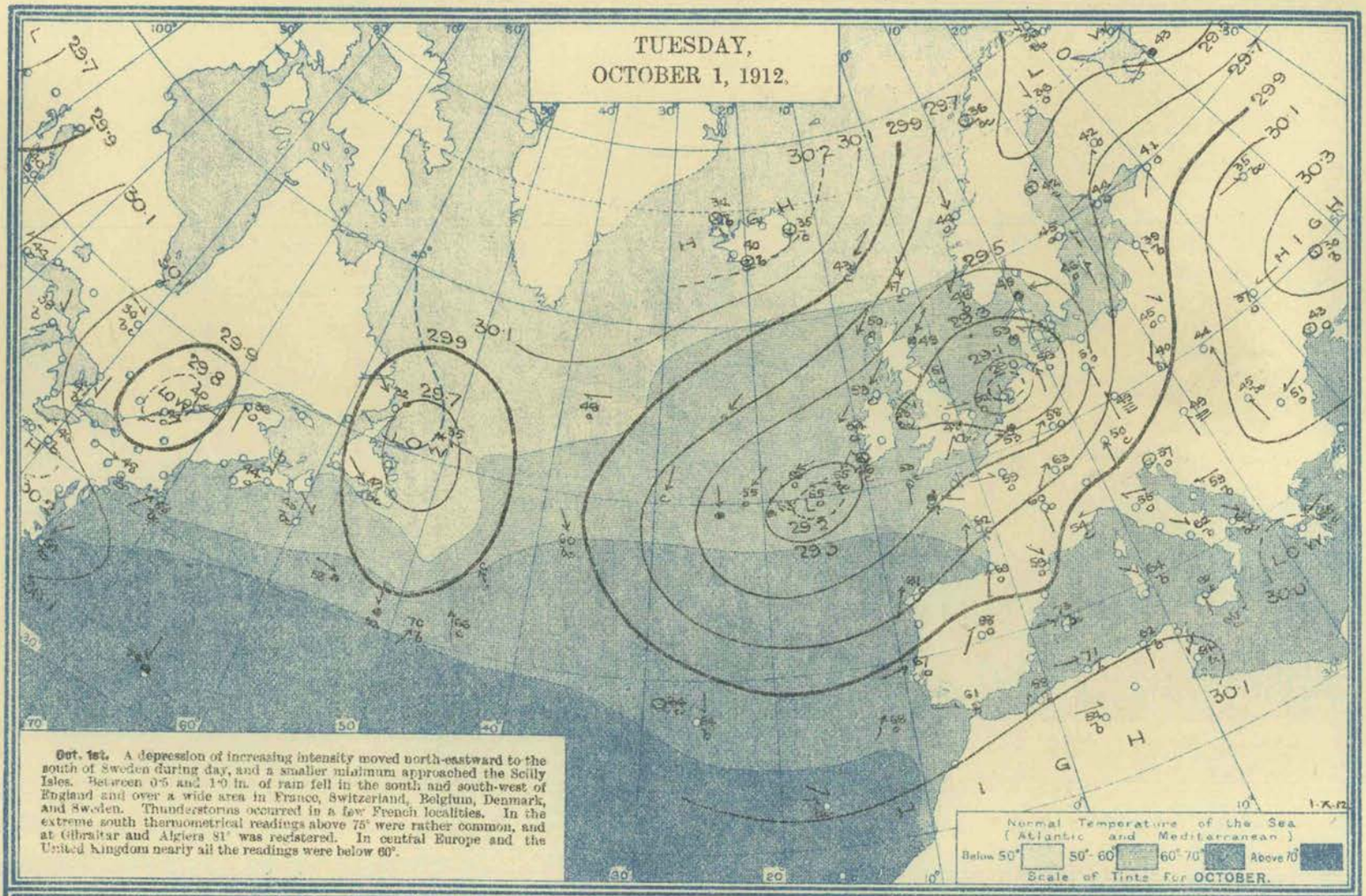
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



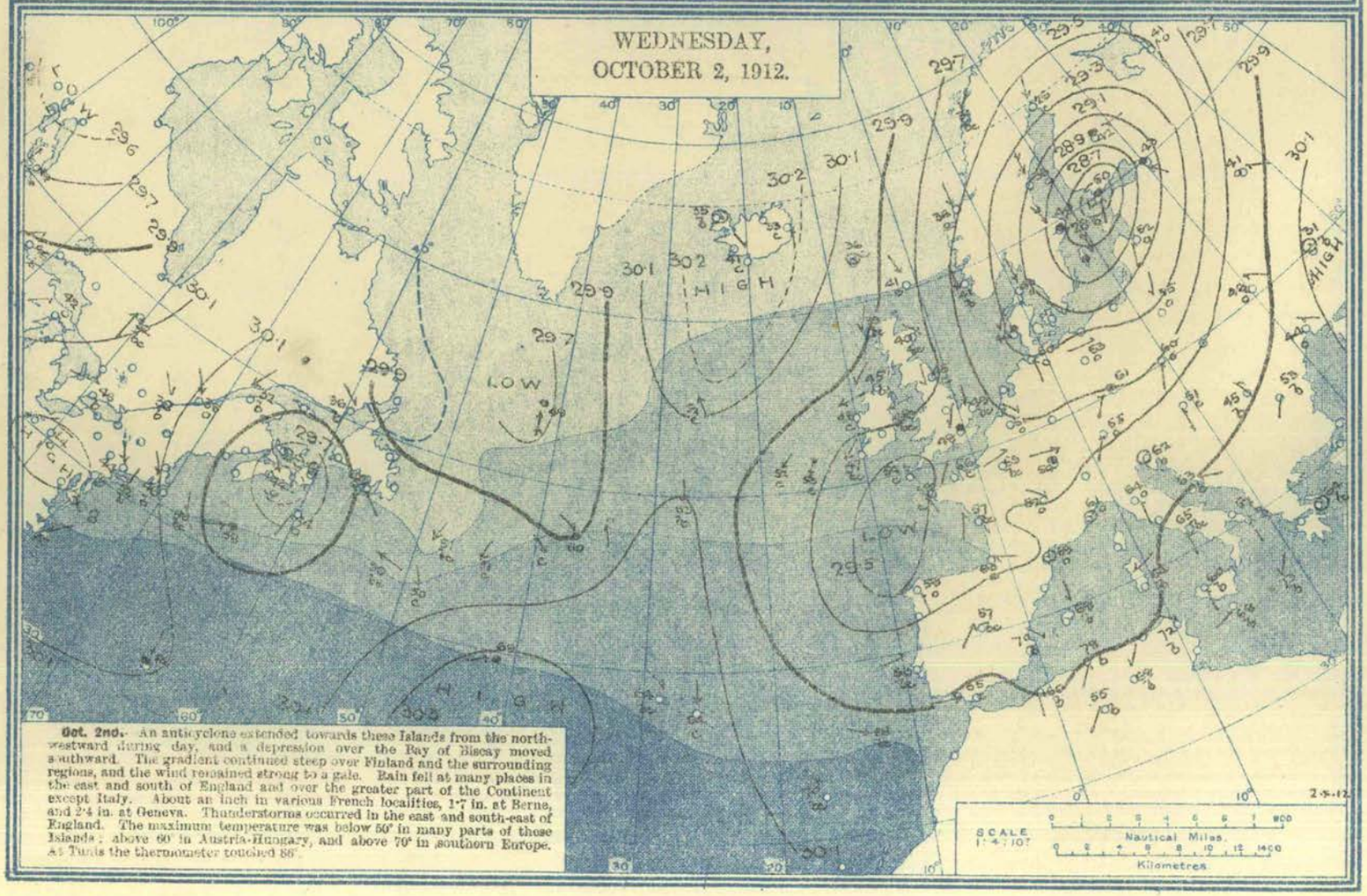
Sept. 29th.—No important change occurred during the day in the general distribution of pressure, but the anticyclonic system over the Baltic region decreased somewhat in intensity. Rain fell in almost all parts of these Islands—heavily in the south and east of England. Large quantities were also experienced in Brittany and Normandy, as well as Oporto. Maximum temperature readings of about 61° were recorded in the south of England, the adjacent part of France, and Belgium, but in the central countries of the Continent the readings were lower. At a few places in the far south the thermometer rose to above 70°—to 77° at Algiers and 76° at Gibraltar.



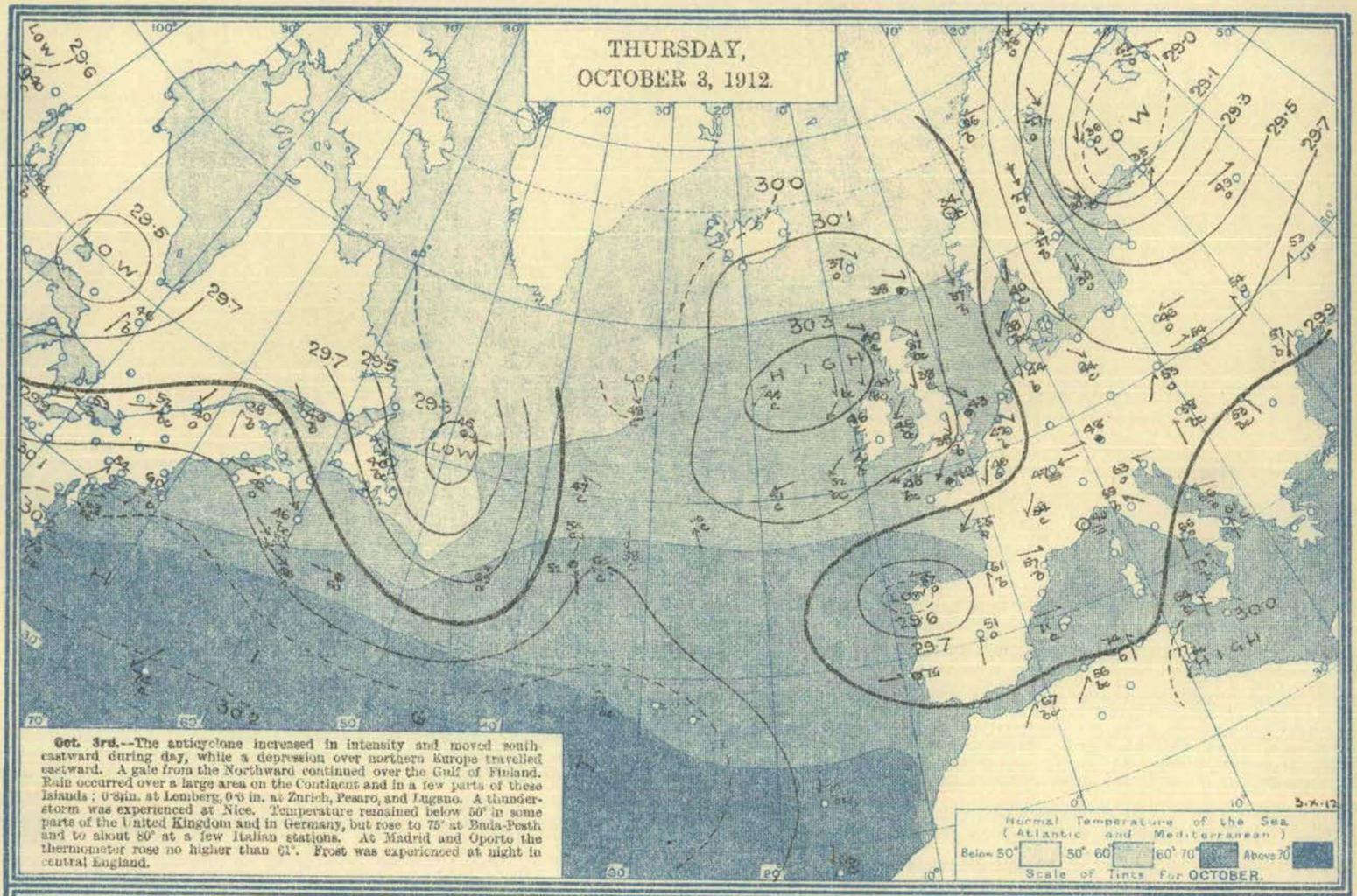
Sept. 30th.—A deep depression developed about the mouth of the Channel during day, and the gradient for Southerly winds became steep over France; a gale was experienced on the Channel. More than an inch of rain fell in the south-east, east, and north-east of Gt. Britain, the Netherlands, and the north-east and north of France; at Gt. Yarmouth the gauge yielded 2·0 in. Rain, 0·8 in., was measured at Malta. In the extreme south of our area the thermometer rose to above 75°—to 81° at Patras, 80° at Gibraltar, and to 76° at Perpignan. In these Islands it remained below 60° except in the south, and only touched 60° locally in central Europe.



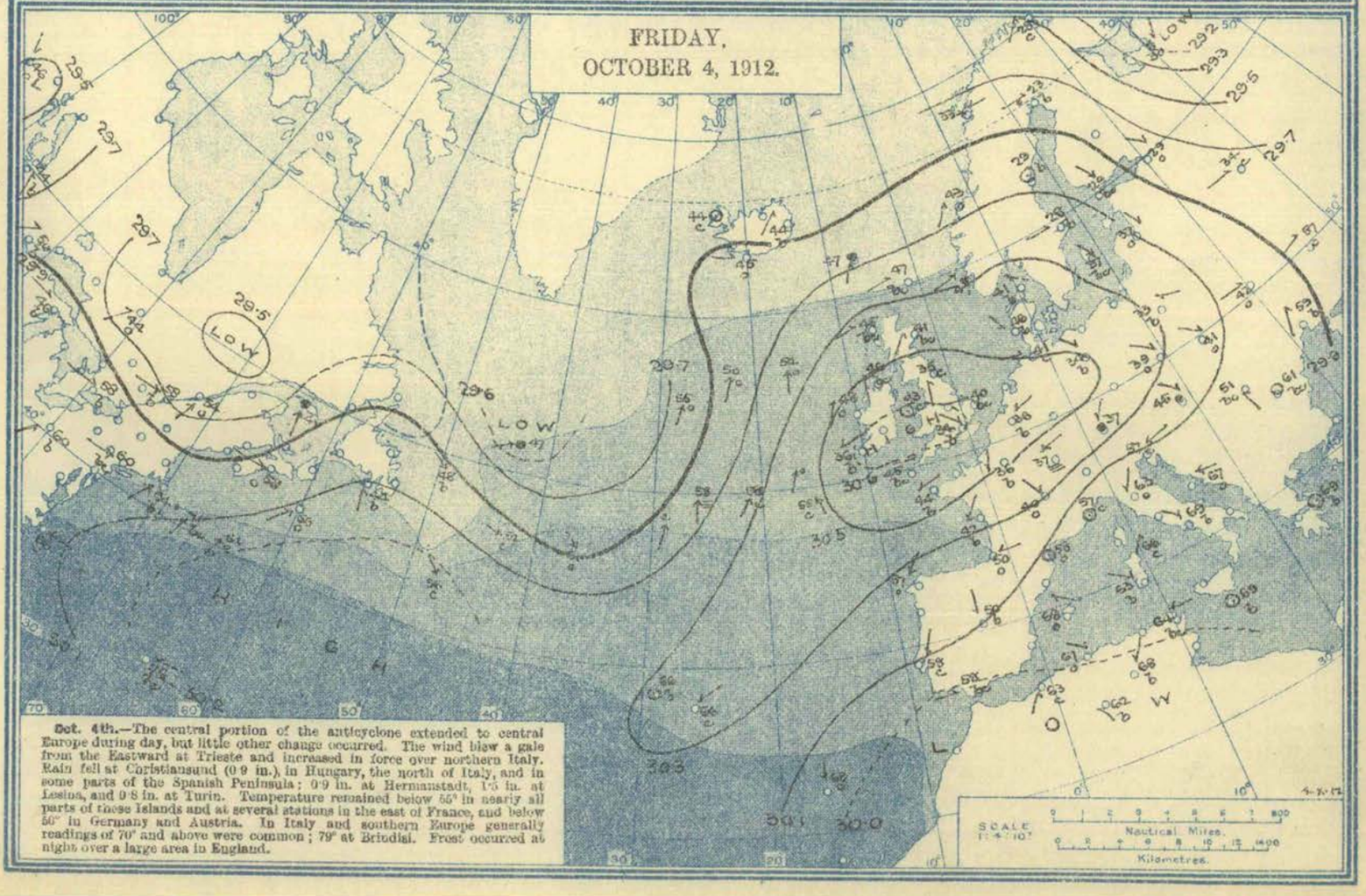
Oct. 1st. A depression of increasing intensity moved north-eastward to the south of Sweden during day, and a smaller minimum approached the Scilly Isles. Between 0·5 and 1·0 in. of rain fell in the south and south-west of England and over a wide area in France, Switzerland, Belgium, Denmark, and Sweden. Thunderstorms occurred in a few French localities. In the extreme south thermometrical readings above 75° were rather common, and at Gibraltar and Algiers 81° was registered. In central Europe and the United Kingdom nearly all the readings were below 60°.



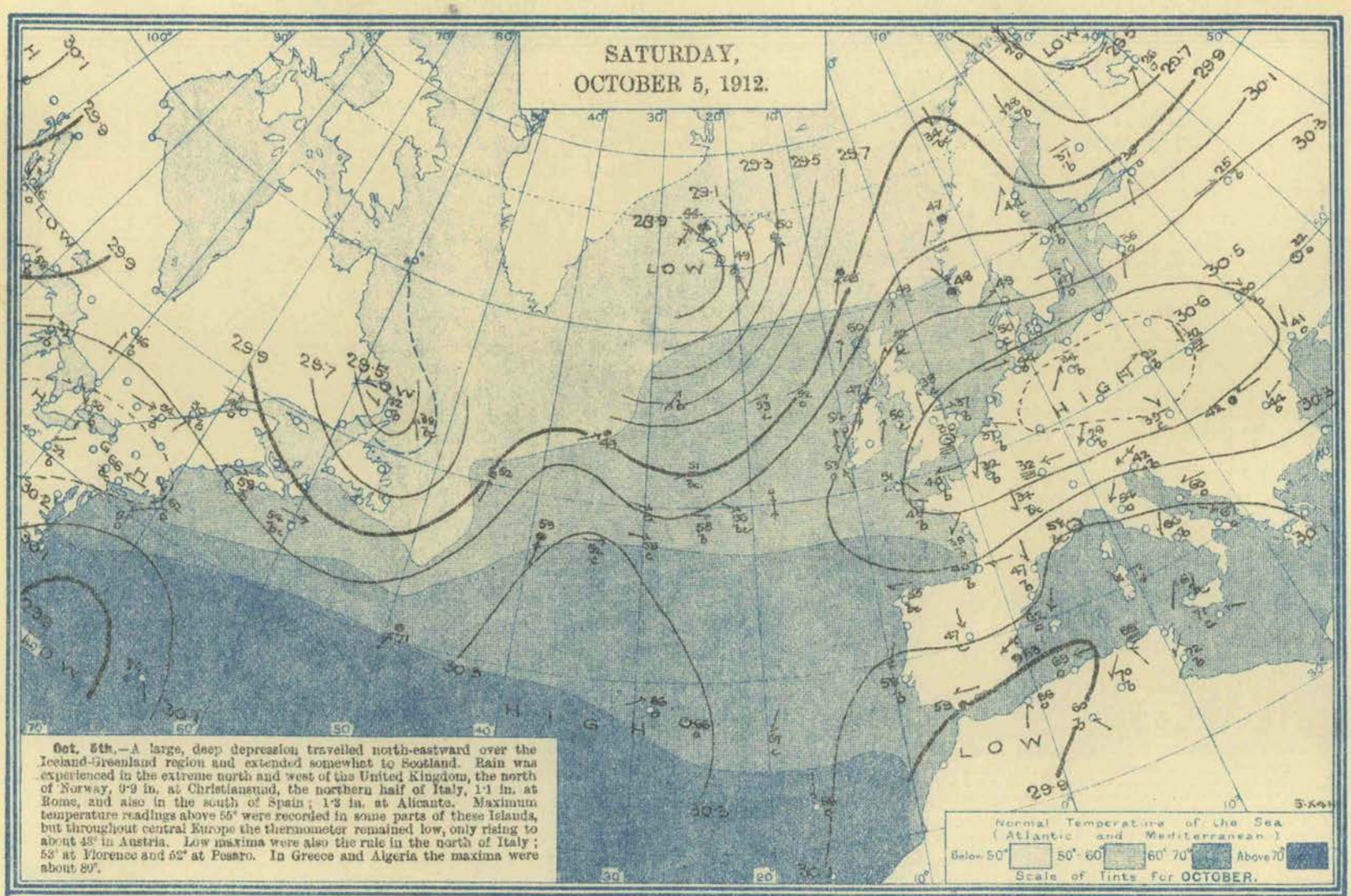
Oct. 2nd. An anticyclone extended towards these Islands from the north-westward during day, and a depression over the Bay of Biscay moved southward. The gradient continued steep over Finland and the surrounding regions, and the wind remained strong to a gale. Rain fell at many places in the east and south of England and over the greater part of the Continent except Italy. About an inch in various French localities, 1·7 in. at Berne, and 2·4 in. at Geneva. Thunderstorms occurred in the east and south-east of England. The maximum temperature was below 50° in many parts of these Islands; above 60° in Austria-Hungary, and above 70° in southern Europe. At Tunis the thermometer touched 86°.



Oct. 3rd.—The anticyclone increased in intensity and moved south-eastward during day, while a depression over northern Europe travelled eastward. A gale from the Northward continued over the Gulf of Finland. Rain occurred over a large area on the Continent and in a few parts of these Islands; 0·83in. at Lemberg, 0·6 in. at Zurich, Pesaro, and Lugano. A thunderstorm was experienced at Nice. Temperature remained below 50° in some parts of the United Kingdom and in Germany, but rose to 75° at Buda-Pesth and to about 80° at a few Italian stations. At Madrid and Oporto the thermometer rose no higher than 61°. Frost was experienced at night in central England.

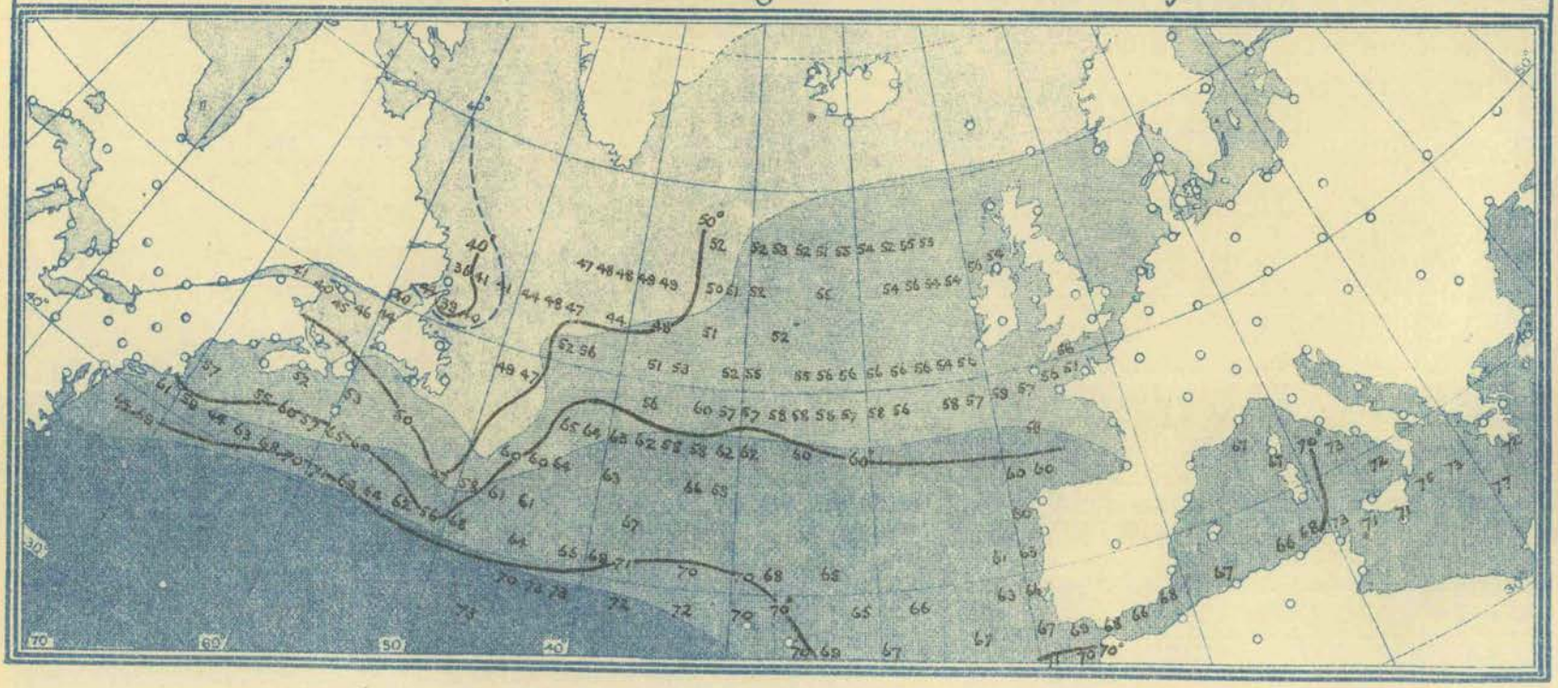


Oct. 4th.—The central portion of the anticyclone extended to central Europe during day, but little other change occurred. The wind blew a gale from the Eastward at Trieste and increased in force over northern Italy. Rain fell at Christiansund (0·9 in.), in Hungary, the north of Italy, and in some parts of the Spanish Peninsula; 0·9 in. at Hermanstadt, 1·5 in. at Lesina, and 0·8 in. at Turin. Temperature remained below 55° in nearly all parts of these Islands and at several stations in the east of France, and below 50° in Germany and Austria. In Italy and southern Europe generally readings of 70° and above were common; 79° at Brindisi. Frost occurred at night over a large area in England.



Oct. 5th.—A large, deep depression travelled north-eastward over the Iceland-Greenland region and extended somewhat to Scotland. Rain was experienced in the extreme north and west of the United Kingdom, the north of Norway, 0·9 in. at Christiansund, the northern half of Italy, 1·1 in. at Rome, and also in the south of Spain; 1·3 in. at Alicante. Maximum temperature readings above 55° were recorded in some parts of these Islands, but throughout central Europe the thermometer remained low, only rising to about 48° in Austria. Low maxima were also the rule in the north of Italy; 53° at Florence and 52° at Pesaro. In Greece and Algeria the maxima were about 80°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 5TH OCTOBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) | No. 41. | FORTY-FIRST WEEK, SUNDAY, OCTOBER 6TH, TO SATURDAY, OCTOBER 12TH, 1912. | *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. Rain fell occasionally in most parts of Ireland and the west and north of Scotland, but elsewhere the conditions were generally dry and bright. Morning mist or fog was, however, rather prevalent over England. In London the week was foggy, especially on Friday and Saturday.

Temperature was above the average in Ireland, Scotland and the northern districts of England, below it elsewhere; in England S.E. the deficit was nearly 4°. The highest of the maxima occurred on rather irregular dates, and ranged from 66° in the English Channel, and 65° in Scotland E. and England S.W. to 61° in Scotland W. and Ireland N. The lowest of the minima, which were recorded on various dates, were below 32° in most districts, the values ranging from 23° in England S.W. (at Llangammarch Wells on the 9th) and 25° in England S.E. (at Marlborough on the 6th) to 35° in England N.W., and to 37° in the English Channel. The lowest grass readings were 18° at Hampstead, 21° at Marlborough, and 22° at Newton Rigg and West Linton. In all districts the temperature of the earth, both at 1 foot and 4 feet below the surface, continued below the normal, the difference at 1 foot being large.

Mean Temperature of the Sea. On all parts of the coast the temperature was below the normal, and at nearly every station it was lower than during the corresponding week of last year.

Rainfall. Over a large portion of England there was no rain, and in Ireland and Scotland the falls were mostly slight. At Fort William, however, as much as 1·1 in. fell on the 6th. In many English localities a measurable amount of water was deposited by wet fogs.

Bright Sunshine exceeded the average in all districts, the excess being very marked in England. In the English Channel the mean daily duration was 7·7 hours, and in England E. and S.E. nearly 7 hours. In Scotland N. it was no more than 3·4 hours. The percentage of the possible duration ranged from 70 in the English Channel, and a little above 60 in England E. and S.E. to 36 in Scotland E., and to 32 in Scotland N.

Barometer and Wind. Depressions over the Icelandic region or the Atlantic affected the winds and weather in the most western and northern parts of the Kingdom, but these Islands generally were under the influence of a large anticyclonic system extending westward from the Continent. The main wind direction was Southerly, and a fresh to strong breeze was experienced at times on the extreme north-west coasts. At Malin Head on the 8th the force of a gale from S.E. was reported. In the east and south of England the wind was light, and chiefly from between E. and N.E. Late in the week very light variable airs or calms became general.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 163.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Unusual	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Moderate	Unusual	Moderate	Deficient
	Rainfall ...	Light	Very light	Very light	Very light	Nought	Very light	Very light	Very light	Nought	Very light	Light	Very light
	Sunshine ...	Abundant	Abundant	Abundant	Abundant	Abundant	Very abundant	Abundant	Very abundant	Very abundant	Abundant	Abundant	Very abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 6 weeks from Sept. 1st, 1912.	Warmth ...	0 * 4	1 * 3	0 * 4	0 * 5	1 * 4	0 * 5	1 * 4	0 * 5	0 * 4	1 * 3	0 * 2	0 * 5
	Rainfall ...	1 * 5	3 * 3	1 * 3	2 * 4	0 * 5	1 * 5	1 * 5	0 * 5	1 * 5	0 * 5	0 * 5	1 * 4
	Sunshine ...	3 * 3	2 * 3	2 * 1	2 * 2	1 * 1	2 * 2	1 * 1	4 * 2	4 * 2	3 * 1	1 * 2	3 * 2

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 5	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(26738—24.) Wt. 173—814. 450. 10/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands.. *p* Baltasound .. S	55	*10th*	35	*12th*	*52·4*	*44·7*	*48·4*	—	*45*	*0*	•	•	47·6	•	•	•	*4*	*0·30*	—	*2·1*	—	*20*	—	*Baltasound.*
a Lerwick	54	8th	41	12th	52·7	46·7	49·6	+ 3·0	53	0	•	•	•	•	•	•	3	0·29	—	4·0	+ 1·2	38	+11	Deerness.
a Stornoway	56	8, 10	34	12th	54·4	45·6	49·9	+ 2·8	55	0	•	•	•	•	•	•	6	0·66	- 0·59	2·5	- 0·4	24	- 4	Stornoway.
a *Castlebay, Barra Isd.* ..	*56*	*7th*	*44*	*12th*	*54·3*	*49·0*	*51·6*	+ *2·8*	*67*	*0*	•	•	•	•	•	•	*5*	*0·67*	—	*2·4*	—	*22*	—	*Castlebay.*
b, Mainland. *a* Wick	57	7th	32	12th	53·9	43·1	48·3	+ 0·7	44	0	•	•	•	•	•	•	5	0·13	- 0·56	•	•	•	•	•
p Strathpeffer	60	10th	33	12th	56·6	40·3	48·2	+ 1·4	51	5	•	•	•	•	•	•	2	0·36	- 0·28	3·8	+ 0·7	36	+ 7	Strathpeffer.
p Glencarron	62	8th	35	10, 12	56·5	40·7	48·4	+ 2·5	50	4	•	•	•	•	•	•	4	2·34	+ 0·24	•	•	•	•	•
p Fort Augustus.. ..	60	8, 10	32	12th	57·4	40·9	48·9	+ 1·3	53	3	•	•	•	•	•	•	2	0·78	- 0·17	3·2	+ 1·1	30	+10	Fort Augustus.
p Fort William	62	8th	35	12th	56·7	42·3	49·3	+ 0·5	51	0	•	•	•	•	•	•	5	1·48	- 0·28	•	•	•	•	•
1. SCOTLAND, E.											4	27	48·3	-2·5	50·2	-2·0	—	—	—	4·6	—	43	—	Crathes S.
p Gordon Castle.. .. S	65	10th	30	10th	58·9	38·4	48·4	0·0	60	10	•	•	•	•	•	•	2	0·03	- 0·72	*4·0*	—	*37*	—	*Gordon Castle.*
p Nairn .. .. .. S	60	8, 10	32	12th	58·0	39·4	48·4	+ 0·9	56	7	•	•	•	•	•	•	2	0·14	- 0·39	3·9	—	36	—	Nairn.
a Aberdeen	64	7th	38	12th	56·9	41·7	49·1	+ 0·8	51	1	•	•	•	•	49·2	-1·9	0	0·00	- 0·65	4·0	+ 0·6	37	+ 6	Aberdeen.
a Balmoral	63	10th	30	10th	58·4	36·0	46·9	+ 2·4	60	17	2	27	•	•	•	•	2	0·04	- 0·77	•	•	•	•	Balmoral.
p Crieff	61	8th	32	10th	56·0	41·3	48·4	+ 0·2	48	2	•	•	•	•	•	•	3	0·09	- 0·75	2·8	—	26	—	Balruddery.
a Leith	61	8, 9, 10	34	10th	59·1	41·3	49·9	+ 0·1	58	2	•	•	•	•	•	•	0	0·00	- 0·47	•	•	•	•	•
p West Linton .. .. S	61	10th	30	10th	56·9	38·6	47·5	+ 0·9	53	10	4	22	•	•	•	•	4	0·05	—	*4·1*	—	*38*	—	*West Linton.*
p Marchmont .. .. S	62	10th	36	10th	57·4	42·7	49·8	+ 2·4	55	0	1	30	45·7	-4·6	•	•	2	0·07	- 0·72	4·0	+ 1·0	37	+ 9	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	60	7th	35	10th	57·0	41·0	48·8	+ 1·2	52	3	1	30	45·7	-4·5	48·7	-2·7	1	0·08	- 0·72	4·9	—	45	—	Cockle Park.
a Shields	60	6, 7	37	6th	57·4	42·1	49·5	+ 0·3	53	0	•	•	•	•	•	•	0	0·00	- 0·66	•	•	•	•	*Newcastle.*
a Durham	61	7th	35	8th	56·7	42·3	49·3	+ 0·7	51	0	?	?	•	•	•	•	1	0·01	- 0·67	4·4	+ 1·3	40	+12	Durham.
a, North .. *p* Rounton	61	7, 12	36	8th	58·4	41·1	49·5	+ 1·4	56	3	1	30	48·2	•	49·7	•	0	0·00	- 0·64	•	•	•	•	Rounton.
a *West Witton*	*57*	*8, 10, 12*	*35*	*8th*	*56·4*	*39·7*	*47·8*	—	*50*	*6*	0	31	46·5	•	•	•	*0*	*0·00*	—	•	•	•	•	*West Witton.*
p Scarborough	63	7th	43	6th	59·0	45·1	51·8	+ 1·7	69	0	•	•	•	•	52·6†	•	0	0·00	- 0·70	5·8	—	53	—	Scarborough.
p York	60	8, 11	37	6, 12	57·3	40·0	48·4	- 1·4	53	6	•	•	49·2	-4·5	52·6	-1·9	1	0·01	- 0·57	2·8	- 0·2	26	- 2	York.
b South .. *a* Spurn Head	61	11th	39	6th	56·7	43·9	50·1	- 1·0	57	0	0	31	46·6	-5·3	52·4	-1·5	5	0·06	- 0·44	*3·4*	—	*31*	—	*Hull.*
a Lincoln	62	9, 11	32	11th	59·0	37·6	48·0	- 1·6	60	12	•	•	46·4	-6·8	52·0	-2·6	1	0·01	- 0·55	•	•	•	•	Lincoln.
a Fulbeck	63	11th	34	8th	59·1	40·3	49·4	0·0	59	5	5	25	48·5	-4·5	52·5	-2·6	0	0·00	- 0·54	5·5	—	51	—	Rauceby.
											•	•	•	•	•	•	—	—	—	5·9	—	54	—	Skegness.
3. ENGLAND, E.											0	33	49·0	-6·5	54·0	-2·7	—	—	—	*7·9*	—	*73*	—	*Lowestoft.*
p Cromer	62	8th	36	6th	59·6	40·4	49·7	- 1·1	61	4	•	•	•	•	•	•	3	0·03	—	7·9	—	73	—	Cromer.
p Hillington											•	•	•	•	•	•	—	—	—	•	—	•	—	Hillington.
a, North .. *a* Yarmouth	59	7th	36	6, 12	56·9	39·9	48·2	- 3·0	52	6	•	•	48·6	-7·1	54·1	-2·9	2	0·05	- 0·69	7·6	—	70	—	Yarmouth.
a Norwich	60	8, 10	32	6, 11	58·3	34·7	46·2	- 5·1	60	20	7	24	46·7	•	•	•	1	0·01	—	*7·5*	—	*69*	—	*Norwich.*
p Geldeston	63	12th	30	11th	60·3	32·9	46·2	- 4·4	68	25	•	•	•	•	•	•	3	0·03	- 0·60	7·6	+ 3·7	70	+34	Geldeston.
p Cambridge	62	9-12	29	6, 8	60·7	32·3	46·1	- 4·2	69	27	6	28	48·0	-6·5	53·8	-2·7	0	0·00	- 0·51	6·9	+ 3·1	63	+28	Cambridge.
a *Felixstowe*	*59*	*7, 10*	*32*	*12th*	*56·3*	*39·6*	*47·7*	- *4·1*	*50*	*7*	•	•	•	•	•	•	*0*	*0·01*‖	—	*6·9*	—	*63*	—	*Felixstowe.*
a Clacton-on-Sea ..	58	9, 10	33	12th	55·0	39·6	47·1	- 4·7	46	7	1	29	51·0	-5·3	54·4	-2·5	1	0·01	—	6·1	—	56	—	Clacton.
b, South .. *a* Rothamsted	62	10th	27	6th	58·9	31·7	44·9	- 4·5	64	29	•	•	•	•	•	•	4	0·03	- 0·63	7·1	+ 3·3	65	+31	Rothamsted.
a *Shoeburyness*	*57*	*7, 9, 10*	*32*	*12th*	*54·0*	*36·0*	*44·7*	- *7·9*	*44*	*17*	•	•	•	•	•	•	*0*	*0·06*‖	- *0·41*	*5·3*	—	*49*	—	*Southend.*
p Tottenham	64	9th	30	6th	54·6	35·4	44·7	- 5·7	47	18	3	27	•	•	55·0	-2·9	0	0·00	—	4·2	—	39	—	Tottenham.
4. MIDLAND COUNTIES.											1	29	46·0	-6·2	51·3	-2·1	—	—	—	*3·2*	—	*29*	—	*Huddersfield.*
a Harrogate	61	11th	36	9th	56·6	41·6	48·9	+ 0·6	50	1	0	32	47·8	-3·8	49·9	-2·3	0	0·00	- 0·71	3·5	—	32	—	Harrogate.
a Bawtry	60	7-9, 11	32	9th	58·3	36·1	46·9	- 2·1	59	17	4	28	47·1	•	50·8	•	2	0·02	- 0·52	3·3	+ 0·4	30	+ 3	Worksop.
p *Buxton*	*62*	*11th*	*32*	*6th*	*57·1*	*37·6*	*47·1*	+ *0·5*	*54*	*12*	4	28	46·7	-5·5	50·3	-2·4	*0*	*0·00*	- *1·07*	*5·6*	—	*51*	—	*Buxton.*
a East .. *a* Nottingham	63	12th	28	6th	59·7	34·3	46·6	- 3·2	65	22	1	30	46·0	-6·9	51·3	-3·9	0	0·00	- 0·54	4·4	—	40	—	Nottingham.
p Birmingham, Edgbsn.	63	11th	38	6th	58·6	41·1	49·6	+ 0·4	57	3	5	23	47·2	-4·5	50·5	-2·1	0	0·00	- 0·58	5·3	—	49	—	Birmingham.
a Raunds	64	11, 12	29	8th	61·4	32·9	46·7	- 3·1	71	25	4	28	48·7	•	54·4	•	0	0·00	—	•	•	•	•	Raunds.
a Oxford	63	9th	30	6th	60·1	32·9	46·1	- 4·2	67	25	6	24	•	•	•	•	1	0·01	- 0·58	7·0	+ 3·4	64	+31	Oxford.
											0	31	47·8	-4·9	51·4	-2·1	—	—	—	4·1	—	38	—	Sheffield.
a Cheadle	60	11th	33	6th	56·6	39·0	47·5	- 0·7	51	8	6	25	•	•	•	•	0	0·00	- 0·70	•	•	•	•	Cheadle.
p Shrewsbury	62	11, 12	29	8th	59·7	34·4	46·7	- 3·5	65	21	3	29	•	•	•	•	0	0·00	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	60	7th	30	10th	55·1	32·1	43·3	- 6·9	51	28	4	27	•	•	•	•	0	0·00	- 0·57	•	•	•	•	Hereford.
a Cirencester	59	7, 11	29	6th	57·7	32·3	44·6	- 4·7	59	27	4	28	48·1	•	51·8	•	1	0·01	- 0·66	5·9	+ 2·4	54	+22	Cirencester.
a Bath	63	9-11	28	6th	61·6	32·6	46·7	- 4·8	72	26	•	•	49·6	-6·9	55·6	-2·3	0	0·00	- 0·66	6·5	—	60	—	Bath.
5. ENGLAND, S.E.											7	25	47·8	-7·4	54·9	-1·8	—	—	—	•	•	•	•	Canterbury.
p Kew	62	10th	29	6th	57·3	35·7	46·2	- 4·7	56	18	5	25	47·9	-7·6	53·3	-2·6	0	0·04‖	- 0·54	4·7	+ 1·3	43	+12	Kew.
a Marlborough	61	10, 11	25	6th	59·0	30·0	44·1	- 4·7	65	34	7	21	•	•	•	•	0	0·00	- 0·65	5·8	+ 2·5	53	+23	Marlborough.
a Margate	61	10th	36	11th	58·0	40·9	49·2	- 3·5	55	3	•	•	48·1	-6·5	53·0	-3·1	1	0·02	- 0·55	6·0	+ 2·2	55	+20	Margate.
a Wisley, Surrey ..	62	10th	27	6th	58·7	32·3	45·1	- 6·3	62	27	6	23	48·2	-6·6	53·0	-3·4	0	0·00	—	5·8	—	53	—	Wisley
a Swarraton	62	10th	27	12th	59·6	31·1	44·9	- 4·7	66	31	2	29	48·8	-7·6	55·1	-2·1	3	0·03	- 0·73	7·9	—	72	—	Worthing.
a Tunbridge Wells ..	62	10th	32	6, 11, 12	59·4	34·1	46·4	- 4·0	64	22	6	28	46·9	-8·2	•	•	0	0·00	- 0·76	8·6	+ 4·8	78	+42	Tunbridge Wells.
a Dungeness	58	8-12	32	7, 12	57·1	37·6	47·1	- 6·2	54	12	•	•	•	•	•	•	0	0·00	- 0·65	7·8	—	71	—	Littlestone.
p Hastings..	60	9th	39	6, 7	57·4	44·0	50·5	- 2·4	80	0	0	31	49·5	•	55·2	•	0	0·02‖	- 0·80	*8·5*	+ *4·3*	77	+38	*Hastings.*
p Southampton	62	9th	31	6th	59·4	35·3	47·0	- 5·4	63	19	5	27	•	•	•	•	0	0·00	- 0·74	6·5	+ 2·5	59	+23	Southampton
a Ventnor	60	10th	41	7th	58·9	47·0	52·8	- 1·5	76	0	•	•	•	•	•	•	0	0·00	- 0·58	7·7	+ 3·4	70	+31	Ventnor.
											3	28	48·3	-7·9	54·5	-3·5	—	—	—	*7·9*	—	*72*	—	*Portsmouth.*
											•	•	50·4	•	55·8	•	—	—	—	8·1	+ 4·0	74	+36	Eastbourne.
											•	•	48·7	•	52·2	•	—	—	—	*6·7*	—	*61*	—	*Bournemouth.*
LONDON.											2	30	•	•	54·7	•	—	—	—	*7·4*	+ *3·2*	*67*	+29	*Brighton.*
a *Westminster*	*63*	*10th*	*34*	*6, 7*	*56·4*	*38·6*	*47·2*	- *3·4*	*51*	*10*	2	29	•	•	•	•	*0*	*0·00*	- *0·57*	*2·6*	+ *0·1*	*24*	+ *1*	*Westminster.*
a *Greenwich*	*63*	*10th*	*29*	*6th*	*59·7*	*34·9*	*46·9*	- *4·7*	*64*	*20*	7	20	•	•	•	•	*0*	*0·01*‖	- *0·52*	*5·8*	+ *2·3*	*53*	+21	*Greenwich.*
a *Hampstead*	*60*	*10th*	*35*	*11, 12*	*56·3*	*38·1*	*46·9*	—	*51*	*11*	7	18	•	•	•	•	*3*	*0·03*	—	*4·9*	—	*45*	—	*Hampstead.*
a *Camden Square* ..	*62*	*9, 10*	*31*	*6th*	*54·4*	*35·7*	*44·8*	—	*46*	*18*	2	29	•	•	•	•	*1*	*0·01*	—	*3·1*	—	*28*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. .. S	56	6, 8-10	38	12th	55·4	45·6	50·4	+ 1·5	59	0	•	•	•	•	•	•	4	0·64	- 0·50	•	•	•	•	•
p Glasgow .. .. .. S	59	8th	39	10th	56·9	45·7	51·1	+ 2·9	64	0	1	30	•	•	•	•	4	0·04	- 0·73	2·6	+ 0·1	24	+ 1	Glasgow.
p Rothesay .. .. S	59	6, 8	41	12th	57·4	44·7	50·9	+ 1·7	62	0	•	•	•	•	50·0	-2·2	4	0·23	- 0·76	•	•	•	•	•
a Kilmarnock	61	10th	35	12th	58·1	43·3	50·5	+ 1·9	66	0	•	•	•	•	•	•	2	0·05	—	*4·2*	—	*39*	—	*Kilmarnock.*
a Colmonell	61	7th	34	12th	58·7	46·0	52·2	+ 3·1	71	0	0	31	•	•	•	•	3	0·09	- 0·91	•	•	•	•	•
p Dumfries	59	7, 10	34	10th	57·0	42·9	49·7	+ 0·9	54	0	2	29	48·4	•	51·7	•	2	0·03	- 0·77	*4·2*	—	*39*	—	*Dumfries.*
p Cally, Gatehouse .. S	58	8, 9, 10	34	10th	57·0	41·1	48·8	+ 0·7	51	3	•	•	•	•	•	•	0	0·00	- 1·07	•	•	•	•	•
b I. OF MAN.																								
p Douglas	57	6, 7, 12	47	6, 10	56·1	48·7	52·3	+ 2·4	72	0	0	41	•	•	•	•	1	0·04	- 0·99	6·0	+ 2·4	55	+22	Douglas.
											4	27	46·1	-5·4	50·5	-2·2	—	—	—	*4·3*	—	*39*	—	*Burnley.*
											0	32	•	•	•	•	—	—	—	5·2	—	48	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	62	10th	36	10th	59·1	42·7	50·7	+ 1·9	61	0	1	29	48·4	•	51·3	•	1	0·04	- 0·86	4·7	—	43	—	Aspatria.
p Newton Rigg	61	9th	35	8, 9	58·1	41·7	49·7	+ 2·2	55	1	3	22	47·7	-4·8	50·1	-2·9	1	0·01	- 0·84	5·7	+ 2·7	52	+25	Newton Rigg.
p Stonyhurst	59	12th	36	8th	56·7	41·4	48·8	+ 0·4	50	2	0	31	•	•	•	•	0	0·00	- 1·05	3·4	+ 0·3	31	+ 2	Stonyhurst.
p Blackpool	62	12th	38	10th	58·6	41·9	50·0	- 0·3	56	0	4	26	49·3	•	52·3	•	0	0·00	- 0·85	4·2	+ 0·9	39	+ 9	Blackpool.
p *Manchester (Whit. Pk.)*	*63*	*9, 12*	*38*	*8, 11*	*60·4*	*40·7*	*50·3*	—	*64*	*4*	4	28	•	•	•	•	0	0·00	—	*4·5*	—	*41*	—	*Whit. Park.*
a Liverpool (Bidston) ..	59	7, 12	40	8th	57·6	42·0	49·6	- 1·3	53	0	•	•	•	•	•	•	0	0·00	- 0·75	*5·2*	—	*48*	—	*Liverpool.*
a Hawarden Bridge ..	61	6, 7, 12	35	8th	58·9	39·0	48·7	- 2·5	60	8	3	28	48·7	-6·4	51·7	-3·7	2	0·04	- 0·61	*5·1*	+ *2·0*	*47*	+18	*Southport.*
											0	34	46·7	-6·6	53·5	-2·1	—	—	—	*3·1*	—	*29*	—	*Manchester City).*
b, NORTH WALES.																								
p Llandudno	59	12th	41	8, 10	56·9	44·7	50·6	- 1·0	60	0	•	•	•	•	•	•	0	0·00	- 0·78	6·7	+ 3·5	62	+32	Llandudno.
a Holyhead	61	9th	43	10th	59·0	46·3	52·5	+ 0·7	74	0	•	•	•	•	•	•	0	0·00	- 0·84	5·5	—	51	—	Aberdovey.
p Bettws-y-Coed ..	64	12th	35	8-10	61·3	39·9	50·3	- 0·6	67	6	0	33	46·1	-5·5	50·6	-2·3	0	0·00	—	6·5	—	60	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet

‖ Fog, mist or dew.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				6·1	—	56	—	Aberystwyth.
a Llangammarch Wells	62	11th	23	9th	57·9	32·0	44·6	− 3·8	60	28	5	23	46·4	−6·6	51·4	−2·4	0	0·00	—	3·6	—	33	—	Llangammarch
a Pembroke	59	9th	43	8th	57·0	47·1	51·9	− 0·7	69	0	•	•	•	•	•	•	1	0·02	− 0·81	4·0	+ 0·3	37	+ 3	Pembroke.[Wells
p Cardiff	60	7th	36	8th	57·3	38·7	47·7	− 2·5	54	9	2	27	48·2	−6·2	53·1	−2·8	0	0·00	− 1·01	*5·1*	—	*47*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	60	11th	36	9th	57·0	38·3	47·4	− 3·2	53	10	1	30	•	•	•	•	0	0·00	− 0·80	*5·4*	—	*50*	—	*Clifton.*
a Shaftesbury	60	11th	39	6th	57·7	41·0	49·1	− 1·0	54	3	•	•	49·3	•	53·5	•	0	0·00	− 0·76	•	•	•	•	Shaftesbury.
a Arlington	62	11th	36	6, 7	58·4	39·7	48·8	− 1·0	57	6	•	•	50·5	•	•	•	0	0·00	− 1·40	6·4	+ 2·5	58	+23	Newquay.
a Cullompton	63	11th	28	6th	61·6	33·0	46·9	− 3·7	72	25	3	26	49·2	•	•	•	0	0·00	− 0·79	6·6	+ 3·2	60	+29	Cullompton.
a Portland	58	7, 10	44	6th	57·3	46·6	51·8	− 1·8	69	0	•	•	•	•	•	•	0	0·00	—	*7·2*	—	*66*	—	*Weymouth.*
p Plymouth	65	11th	35	6, 7	60·1	40·9	50·2	− 2·4	62	3	4	25	49·6	−5·5	•	•	0	0·00	− 0·80	7·3	+ 3·6	66	+32	Plymouth.
p Falmouth	59	11th	41	6th	56·0	47·6	51·7	− 1·2	68	0	•	•	•	•	•	•	0	0·00	− 1·02	6·8	+ 2·9	62	+26	Falmouth.
9. IRELAND. N.																								
a Malin Head	59	8-10, 12	45	8, 10, 12	57·9	45·9	51·7	+ 1·5	68	0	•	•	•	•	•	•	1	0·12	− 0·60	•	•	•	•	• •
a Blacksod Point ..	59	8, 9	47	8, 11, 12	57·4	48·9	53·0	+ 1·8	77	0	•	•	•	•	•	•	3	0·44	− 0·68	•	•	•	•	• •
a, West .. *p* Markree Castle ..	61	8th	38	10, 12	58·9	41·0	49·7	+ 1·1	58	3	1	29	51·4	•	53·0	•	2	0·15	− 0·76	3·6	+ 0·6	33	+ 5	Markree Castle.
a Birr Castle	61	9, 10	40	10, 11	60·0	43·1	51·3	+ 2·7	65	0	•	•	•	•	•	•	2	0·29	− 0·34	*5·5*	+ *2·1*	*51*	+*19*	*Birr Castle.*
b, East .. *p* Armagh	61	10th	31	10th	58·6	44·4	51·3	+ 2·5	65	0	1	27	50·2	−3·2	52·2	−2·4	3	0·07	− 0·53	5·0	+ 1·9	46	+17	Armagh.
a Donaghadee	59	6th	39	10th	56·7	45·4	50·9	+ 0·7	62	0	•	•	•	•	•	•	1	0·05	− 0·57	•	•	•	•	• •
											1	30	50·2	−3·9	52·4	−2·6	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND. S.											2	24	•	•	•	•	—	—	—	5·6	+ 1·9	51	+17	Phœnix Park.
p Dublin, City	60	12th	39	10th	58·4	45·3	51·7	+ 0·8	68	0	0	35	•	•	•	•	1	0·11	− 0·48	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny	60	6, 10	33	10th	58·6	40·9	49·5	− 0·3	57	3	•	•	•	•	•	•	2	0·07	− 0·58	•	•	•	•	• •
a Waterford	60	9, 10	37	8th	58·6	43·4	50·8	+ 0·3	62	0	•	•	•	•	•	•	1	0·04	− 0·78	•	•	•	•	• •
a Birr Castle	61	9, 10	40	10, 11	60·0	43·1	51·3	+ 2·7	65	0	•	•	•	•	•	•	2	0·29	− 0·34	5·5	+ 2·1	51	+19	Birr Castle.
a Foynes	61	10th	43	10th	58·7	46·7	52·5	+ 1·7	74	0	•	•	•	•	•	•	5	0·57	− 0·25	•	•	•	•	• •
a Cahir	61	6th	35	10th	58·4	42·1	50·0	− 0·7	56	0	•	•	•	•	•	•	2	0·08	—	•	•	•	•	• •
b, West .. *a* Killarney	64	6th	43	6th	60·6	47·8	54·0	+ 3·2	84	0	•	•	•	•	•	•	4	0·22	− 0·95	•	•	•	•	• •
a Valencia	60	10th	42	6, 7	58·1	47·4	52·6	− 0·1	74	0	•	•	•	•	•	•	5	0·84	− 0·31	3·7	+ 0·2	34	+ 1	Valencia.
a Roche's Point	59	6, 11	43	6th	57·7	46·9	52·1	0·0	71	0	•	•	•	•	•	•	6	0·19	− 0·66	5·4	—	49	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	60	10, 11	47	7th	58·4	49·3	53·7	− 1·0	82	0	•	•	•	•	•	•	3	0·04	− 0·72	6·1	+ 1·9	56	+18	Scilly.
a Jersey, St. Aubins ..	66	10th	37	6, 7	61·0	39·9	50·1	− 5·4	66	6	•	•	•	•	•	•	0	0·00	− 0·93	9·0	+ 4·5	82	+41	St. Heliers.
a Guernsey (Villa Carey)	66	10th	40	6th	62·9	45·7	54·1	− 0·9	85	0	0	34	53·0	−5·0	56·6	−2·8	0	0·00	− 0·94	7·9	+ 3·7	72	+34	Guernsey.*

Additional Sunshine Means:—*Bognor, 8·2 hrs. 75 °/₀; Ramsgate, 7·4 hrs. 67 °/₀; Rhyl, hrs. °/₀; Salcombe, 7·7 hrs. 70 °/₀; Tenby, 4·0 hrs. (+0·2) 37 °/₀ (+2 °/₀); Torquay, 6·4 hrs. (+2·5) 58 °/₀ (+23 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, October 12th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from. Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	50	49	49·1	−1·6	SCOTLAND, W. ..	Lamlash	54	51	52·1	−1·2
	Kirkwall	50	47	49·2	−0·9		Ballantrae	52	48	49·7	−2·9
	Wick	50	48	48·7	−3·4	ENGLAND, N.W. ..	Port Erin	54	53	53·6	−1·3
	Cromarty	52	48	49·8	−2·4		Newquay	54	53	53·1	−4·9
SCOTLAND, E. ..	Pennan Bay	52	50	50·9	−0·5	ENGLAND, S.W. ..	Scilly	56	54	54·6	—
	Aberdeen, Cove Bay	51	50	50·9	−0·5		Plymouth‡	56	55	55·7	−1·2
ENGLAND, N.E. ..	Burnmouth, Berwick	47	46	46·8	−4·4		Salcombe	57	52	55·2	−2·5
	Scarborough	52	49	50·6	−2·0	IRELAND, N.W. ..	Sheephaven	52	49	51·3	−3·7
ENGLAND, E. ..	Shipwash Lightship	58	52	55·0	−3·1		Teelin	55	50	52·8	−2·7
	Margate‡	55	53	53·5	−4·4	IRELAND, S.W. ..	Cleggan	54	51	53·2	−0·5
ENGLAND, S.E. ..	Eastbourne‡	53	52	52·9	−5·7	IRELAND, E.	Seafield	58	50	52·9	−2·6
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-FIRST WEEK—October 6th to October 12th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	62	32	55·5	42·8	48·9	+ 2·2	48	+ 8	0	− 6	4	− 1	0·86	−0·39	3·4	+0·9	32	+ 8
Eastern.																		
1. SCOTLAND, EAST ...	65	30	57·7	39·9	48·6	+ 1·7	55	+ 12	6	− 1	2	− 2	0·05	−0·69	3·9	+0·9	36	+ 9
2. ENGLAND, N.E.	63	32	57·8	41·5	49·4	+ 0·6	54	+ 4	1	− 2	1	− 3	0·02	−0·64	4·9	+1·6	45	+14
3. ENGLAND, EAST ...	64	27	58·0	35·9	46·6	− 3·2	58	− 1	17	+13	2	− 2	0·02	−0·61	6·8	+3·2	62	+29
4. MIDLAND COUNTIES ...	64	28	58·7	35·4	46·7	− 1·9	61	+ 8	18	+13	0	− 4	0·00	−0·67	5·0	+1·8	46	+16
5. ENGLAND, S.E.	62	25	58·5	36·8	47·3	− 3·8	59	− 8	15	+12	1	− 3	0·01	−0·71	6·9	+3·3	63	+30
Western.																		
6. SCOTLAND, WEST ...	61	34	57·1	44·8	50·7	+ 2·4	61	+ 12	0	− 4	3	− 1	0·14	−0·97	4·3	+2·2	39	+13
7. ENGLAND, N.W.	64	35	58·5	42·2	50·1	+ 0·5	57	+ 2	0	− 1	1	− 4	0·01	−0·92	5·2	+2·3	48	+21
8. ENGLAND, S.W.	65	23	58·0	40·5	49·0	− 1·9	55	− 9	4	+ 2	0	− 4	0·00	−1·03	5·8	+2·3	53	+21
9. IRELAND, NORTH ...	61	31	58·3	44·8	51·3	+ 2·6	65	+ 15	0	− 2	2	− 3	0·19	−0·69	4·3	+1·4	39	+13
10. IRELAND, SOUTH ...	64	33	58·8	44·8	51·6	+ 1·5	67	+ 8	0	− 2	3	− 1	0·27	−0·60	5·1	+1·6	46	+14
11. ENGLISH CHANNEL ...	66	37	60·8	45·0	52·6	− 1·7	74	− 12	0	0	1	− 4	0·01	−0·87	7·7	+3·4	70	+31

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 6 Weeks, September 1st to October 12th, 1912.

0. SCOTLAND, NORTH ...	66	28	*	*	*	*	287	− 74	1	−11	21	− 8	3·80	−3·04	3·5	+0·4	28	+ 3
Eastern.																		
1. SCOTLAND, EAST ...	72	26	*	*	*	*	309	− 79	24	+ 9	14	−10	3·47	−0·20	3·3	−0·4	27	− 3
2. ENGLAND, N.E.	70	28	*	*	*	*	356	−101	5	0	14	− 7	2·04	−0·96	4·0	−0·1	33	− 1
3. ENGLAND, EAST ...	69	27	*	*	*	*	408	−112	17	+10	14	− 6	2·72	−0·31	4·6	0·0	38	0
4. MIDLAND COUNTIES ...	70	25	*	*	*	*	375	−100	29	+19	7	−13	1·24	−1·94	3·9	−0·1	32	− 1
5. ENGLAND, S.E.	68	24	*	*	*	*	414	−156	15	+11	9	−11	3·24	−0·28	5·0	+0·3	41	+ 3
Western.																		
6. SCOTLAND, WEST ...	67	22	*	*	*	*	350	− 74	5	− 2	14	−10	3·02	−3·08	4·1	+0·3	34	+ 2
7. ENGLAND, N.W.	66	26	*	*	*	*	367	−114	4	+ 2	12	−11	1·53	−3·08	4·3	+0·4	35	+ 3
8. ENGLAND, S.W.	72	21	*	*	*	*	411	−122	6	+ 4	8	−15	1·89	−3·00	4·8	+0·4	40	+ 3
9. IRELAND, NORTH ...	67	26	*	*	*	*	383	− 61	0	− 3	12	−15	1·22	−3·53	3·7	+0·2	31	+ 2
10. IRELAND, SOUTH ...	72	25	*	*	*	*	433	− 62	3	0	14	− 9	1·29	−3·02	4·2	0·0	35	0
11. ENGLISH CHANNEL ...	68	37	*	*	*	*	551	−107	0	0	11	−13	2·65	−1·47	5·7	+0·2	47	+ 2

THE YEAR.—Aggregates, &c., for the Period of 41 Weeks, December 31st, 1911, to October 12th, 1912.

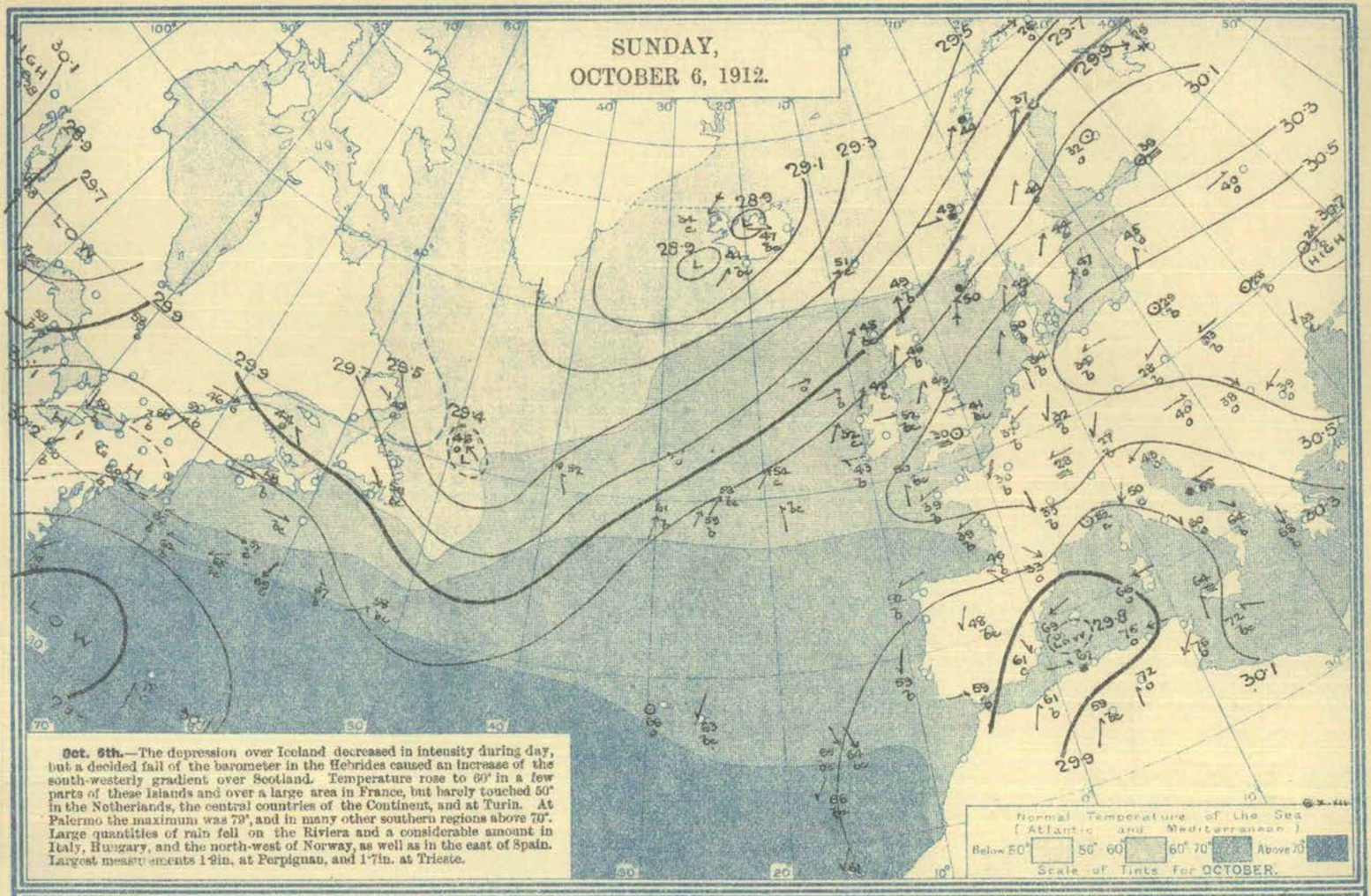
0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1773	−142	428	−141	181	− 8	34·45	− 3·80	3·3	−0·2	25	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	1978	−180	543	− 92	161	+ 4	24·21	+ 0·97	3·2	−1·0	24	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	2347	− 60	378	−102	158	+17	24·56	+ 6·10	3·5	−1·1	27	− 8
3. ENGLAND, EAST ...	91	14	*	*	*	*	2842	+ 62	291	−237	148	+12	23·19	+ 5·25	4·4	−0·5	34	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2599	−112	402	−141	143	+ 8	26·65	+ 6·71	3·6	−0·8	28	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	2859	−130	233	−152	138	+ 8	24·60	+ 4·97	4·6	−0·4	35	− 3
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2213	−114	334	− 98	162	− 2	32·40	− 2·55	3·8	−0·5	28	− 4
7. ENGLAND, N.W. ...	84	7	*	*	*	*	2419	−129	302	− 86	157	+ 6	27·62	+ 1·80	3·9	−0·5	30	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2655	−170	195	−108	163	+15	34·91	+ 7·37	4·0	−0·9	31	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2233	−198	237	−111	157	−22	27·70	− 0·91	3·6	−0·4	27	− 3
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2591	−190	170	− 92	185	+27	32·23	+ 2·74	3·6	−0·9	28	− 6
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3258	+ 14	44	− 65	164	+ 7	30·36	+ 7·56	5·1	−0·9	39	− 7

M.O., October 16, 1912.

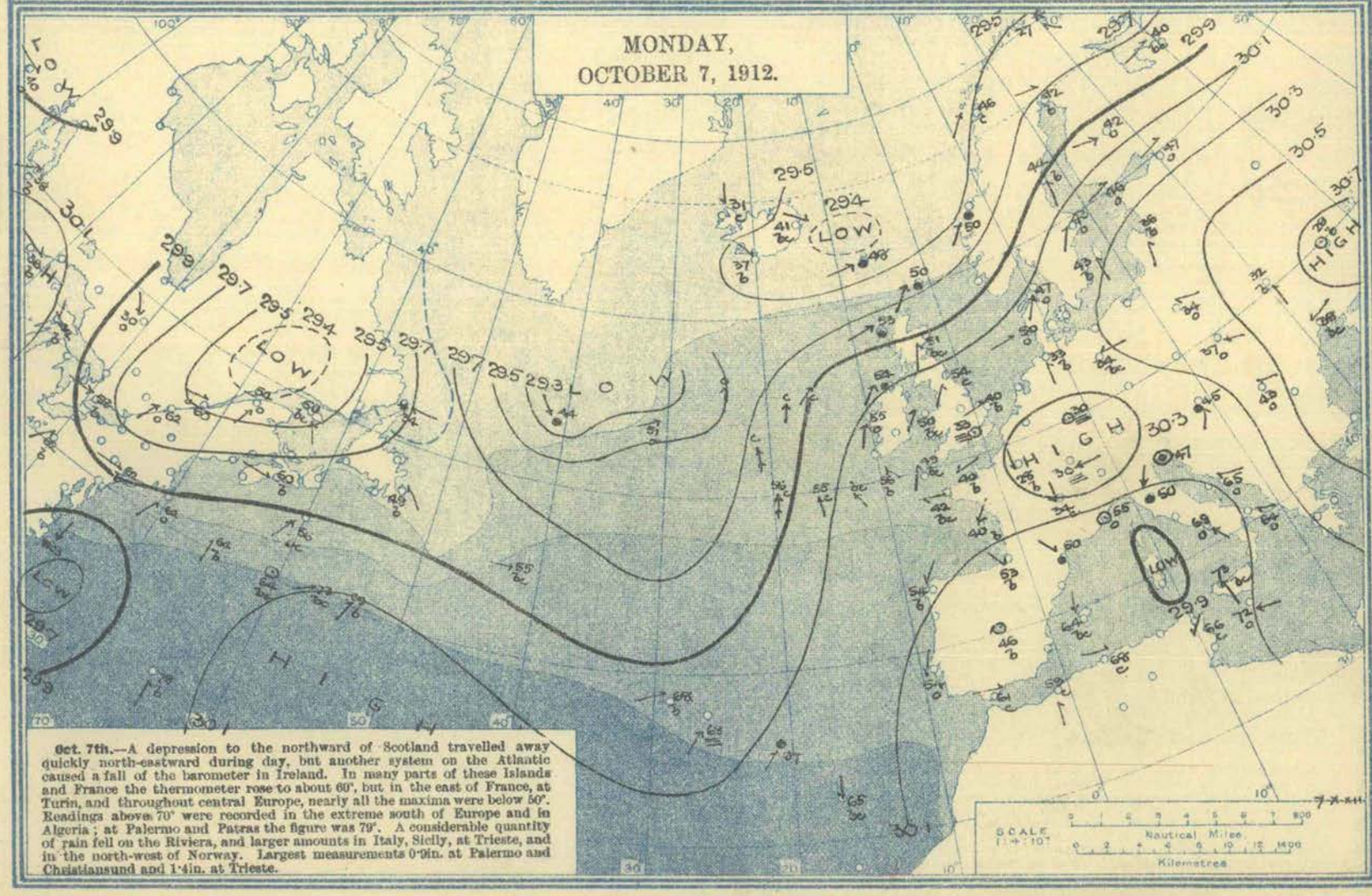
NOTES ON TABLE IV.

* An Asterisk is inserted in all places for which the information is not usually given

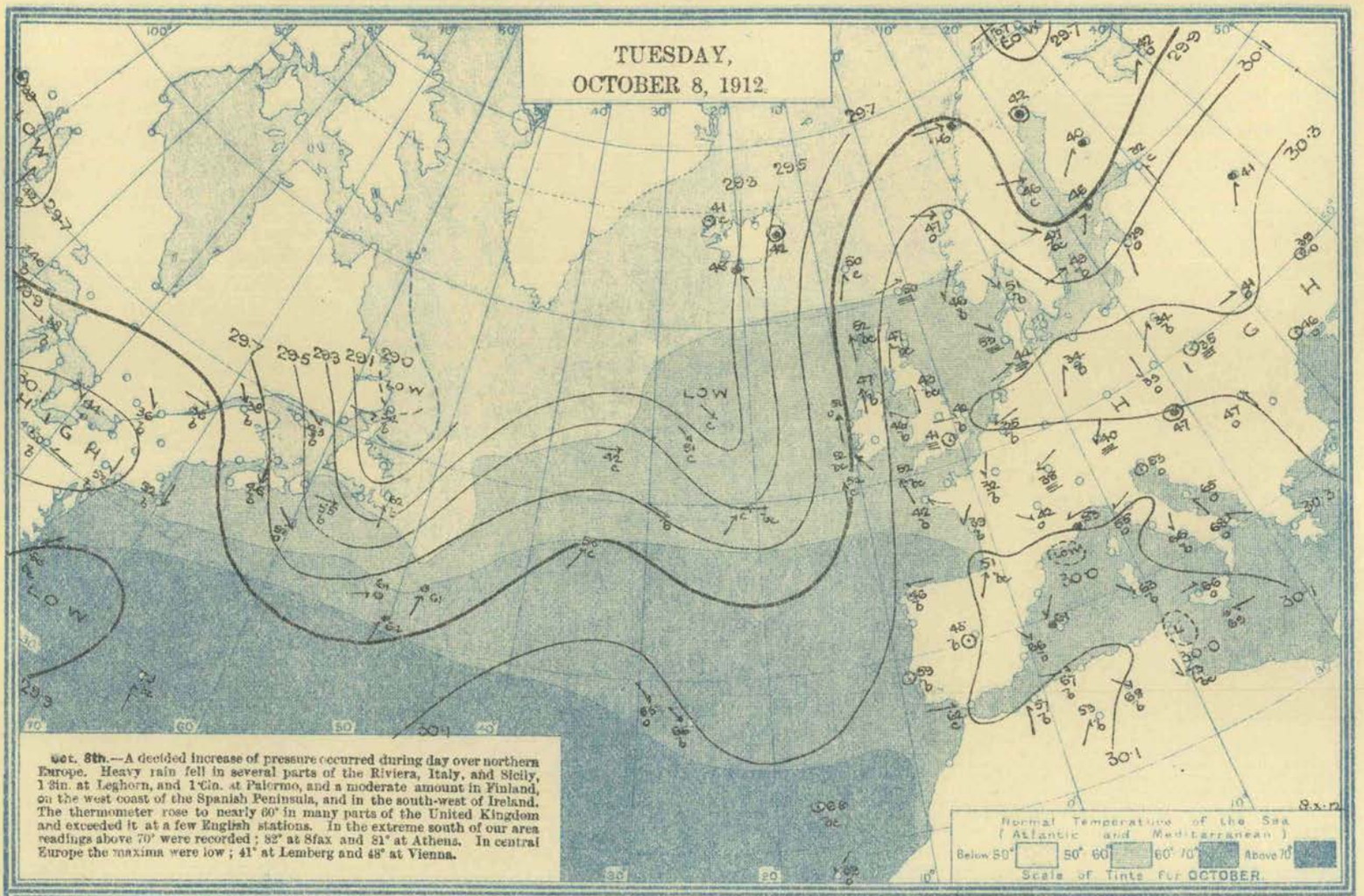
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



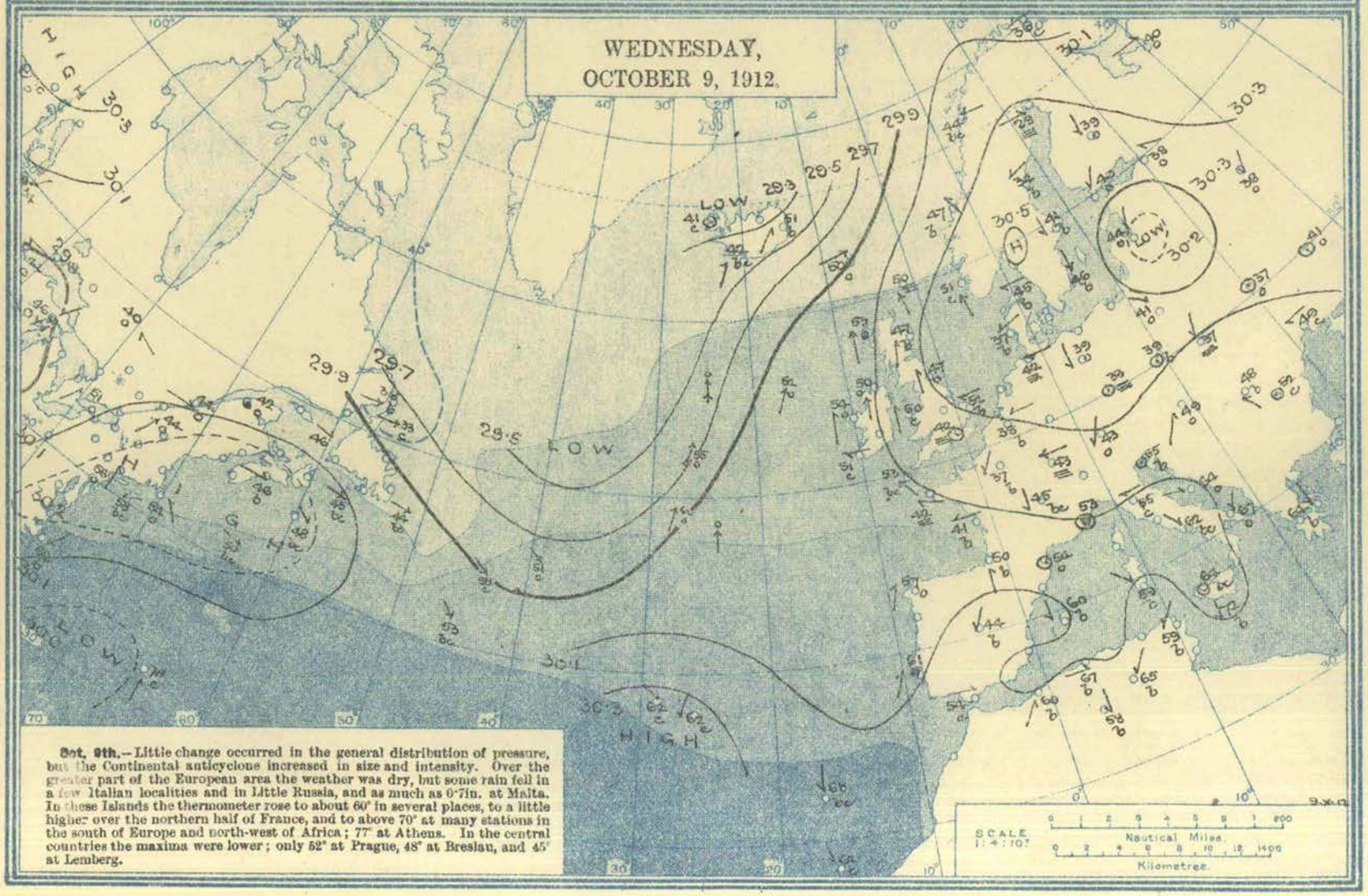
Oct. 6th.—The depression over Iceland decreased in intensity during day, but a decided fall of the barometer in the Hebrides caused an increase of the south-westerly gradient over Scotland. Temperature rose to 60° in a few parts of these Islands and over a large area in France, but barely touched 50° in the Netherlands, the central countries of the Continent, and at Turin. At Palermo the maximum was 79°, and in many other southern regions above 70°. Large quantities of rain fell on the Riviera and a considerable amount in Italy, Hungary, and the north-west of Norway, as well as in the east of Spain. Largest measurements 1·2in. at Perpignan, and 1·7in. at Trieste.



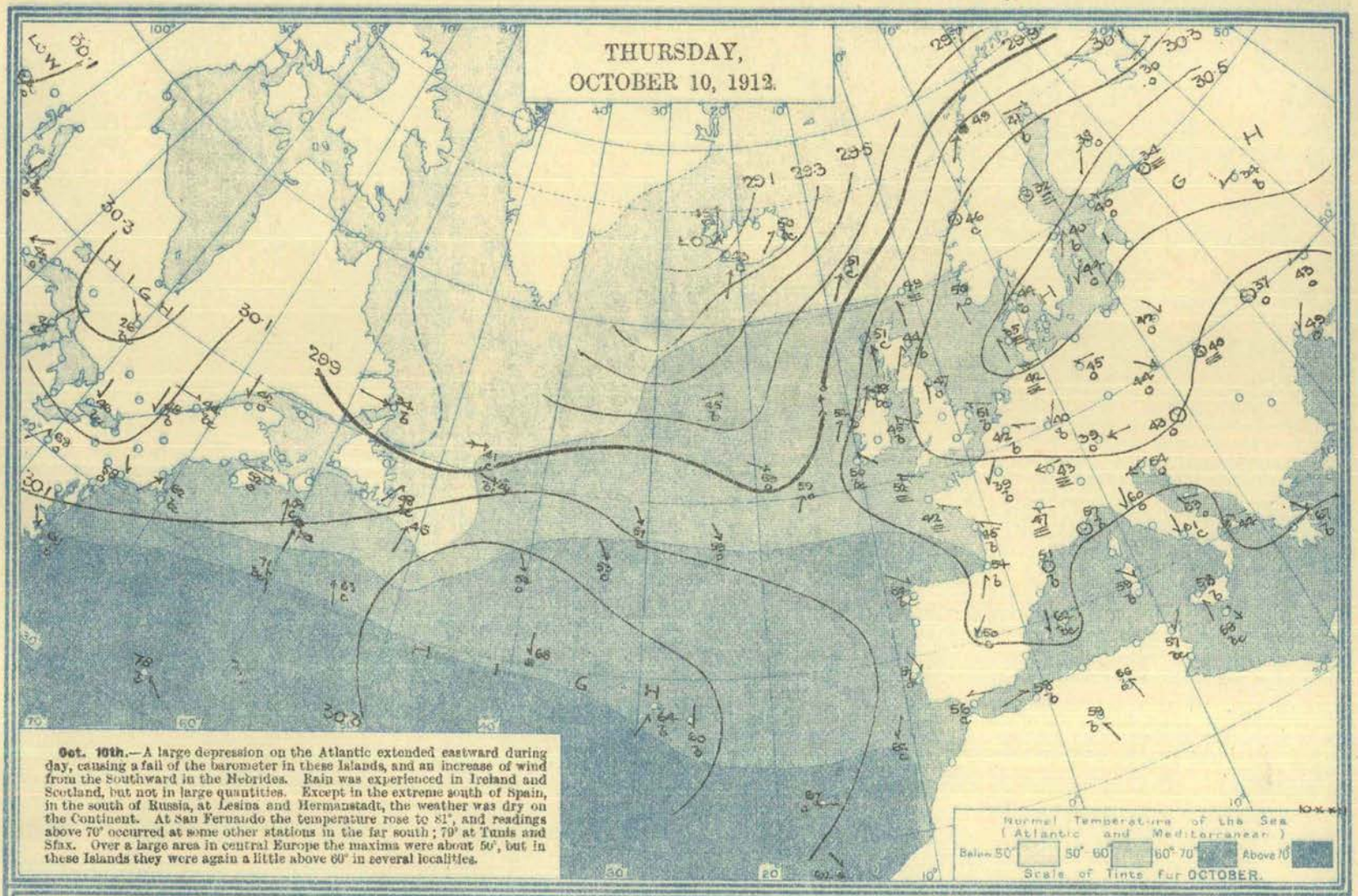
Oct. 7th.—A depression to the northward of Scotland travelled away quickly north-eastward during day, but another system on the Atlantic caused a fall of the barometer in Ireland. In many parts of these Islands and France the thermometer rose to about 60°, but in the east of France, at Turin, and throughout central Europe, nearly all the maxima were below 50°. Readings above 70° were recorded in the extreme south of Europe and in Algeria; at Palermo and Patras the figure was 79°. A considerable quantity of rain fell on the Riviera, and larger amounts in Italy, Sicily, at Trieste, and in the north-west of Norway. Largest measurements 0·9in. at Palermo and Christiansund and 1·4in. at Trieste.



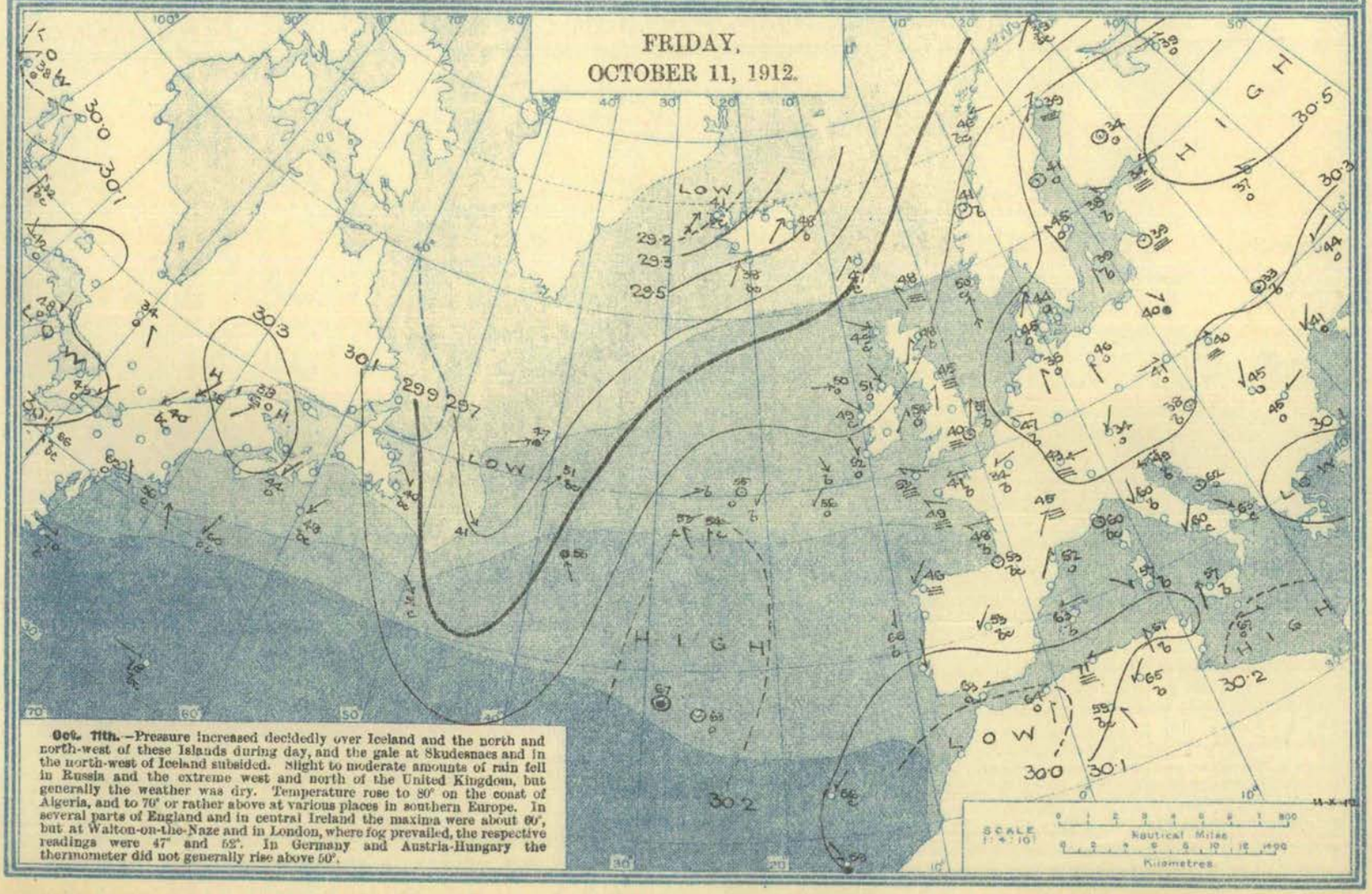
Oct. 8th.—A decided increase of pressure occurred during day over northern Europe. Heavy rain fell in several parts of the Riviera, Italy, and Sicily, 1·3in. at Leghorn, and 1·0in. at Palermo, and a moderate amount in Finland, on the west coast of the Spanish Peninsula, and in the south-west of Ireland. The thermometer rose to nearly 60° in many parts of the United Kingdom and exceeded it at a few English stations. In the extreme south of our area readings above 70° were recorded; 82° at Sfax and 81° at Athens. In central Europe the maxima were low; 41° at Lemberg and 48° at Vienna.



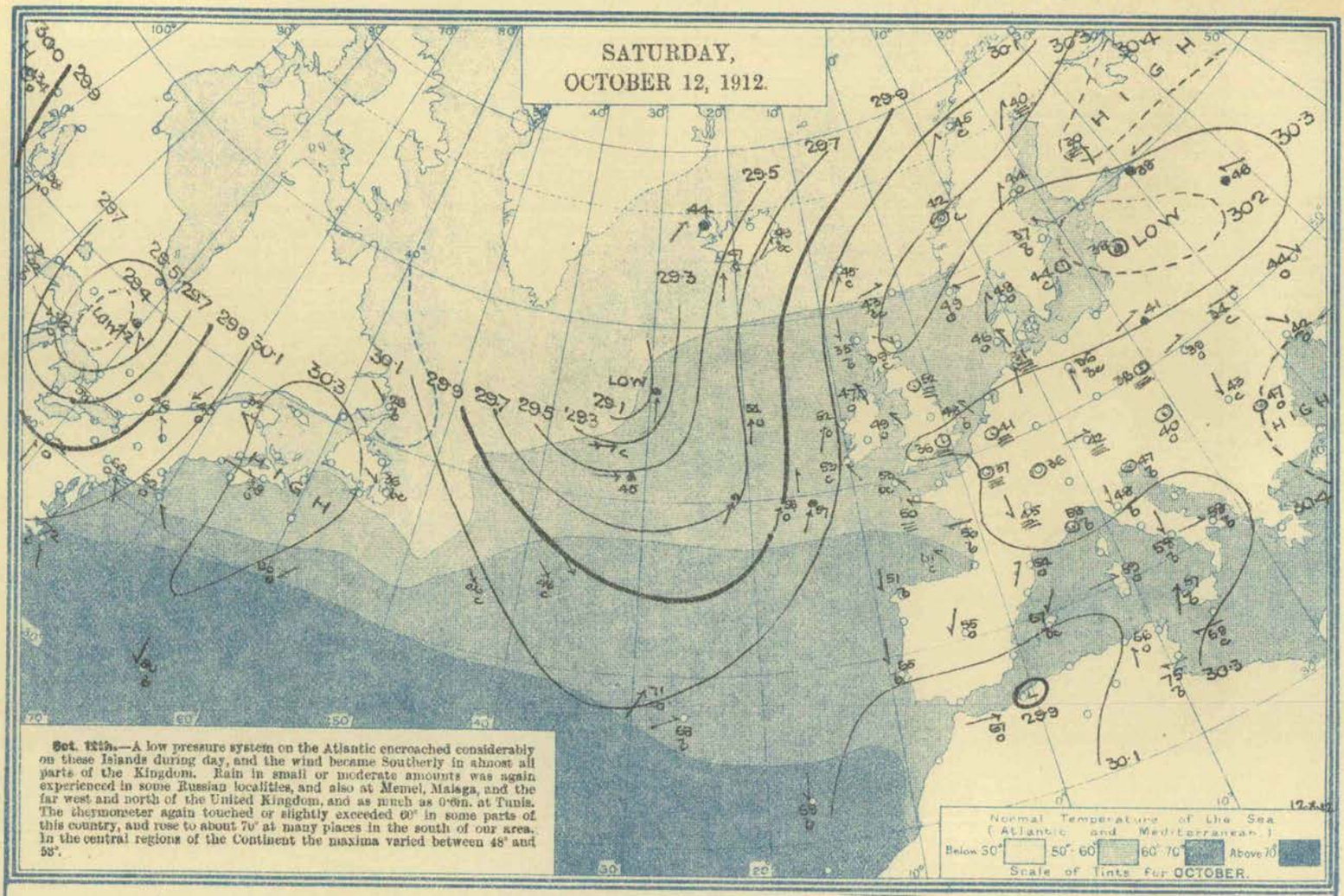
Oct. 9th.—Little change occurred in the general distribution of pressure, but the Continental anticyclone increased in size and intensity. Over the greater part of the European area the weather was dry, but some rain fell in a few Italian localities and in Little Russia, and as much as 0·7in. at Malta. In these Islands the thermometer rose to about 60° in several places, to a little higher over the northern half of France, and to above 70° at many stations in the south of Europe and north-west of Africa; 77° at Athens. In the central countries the maxima were lower; only 52° at Prague, 48° at Breslau, and 45° at Lemberg.



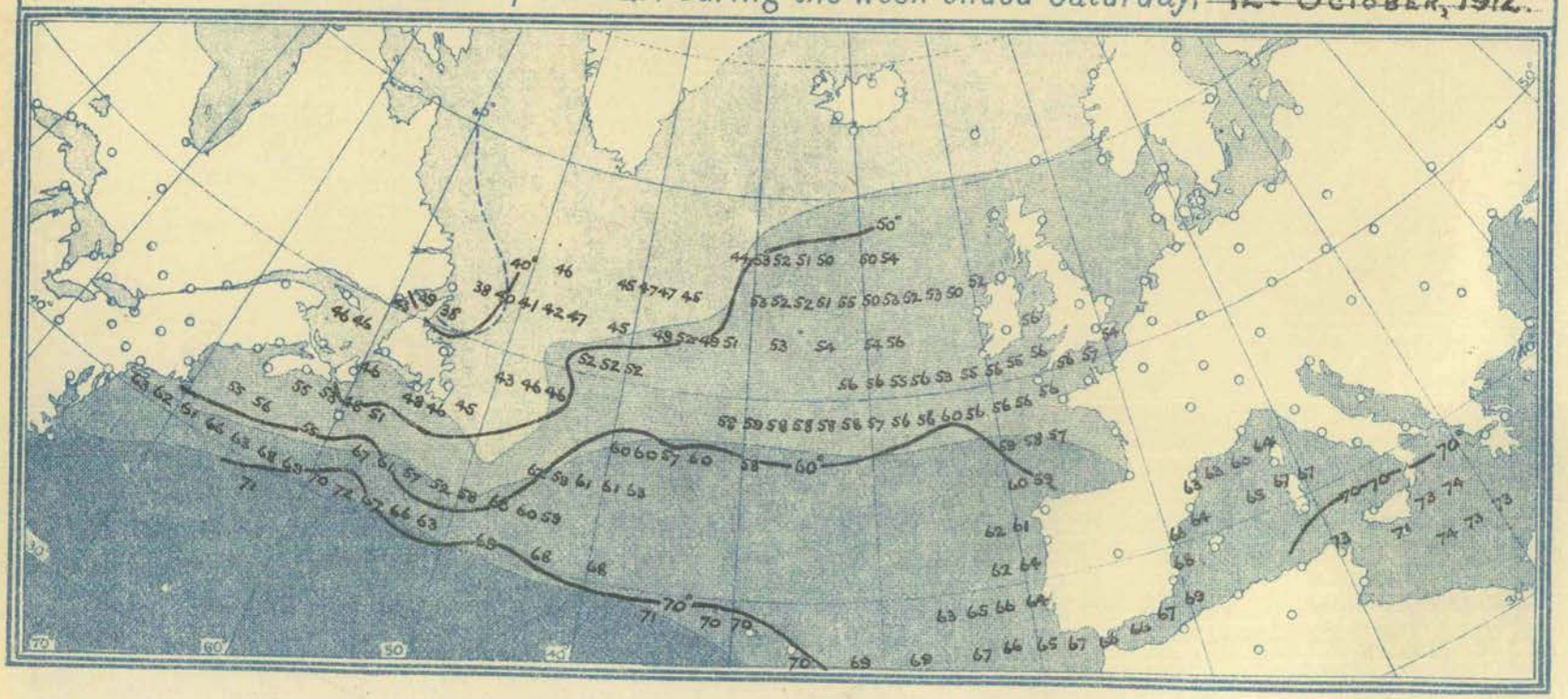
Oct. 10th.—A large depression on the Atlantic extended eastward during day, causing a fall of the barometer in these Islands, and an increase of wind from the Southward in the Hebrides. Rain was experienced in Ireland and Scotland, but not in large quantities. Except in the extreme south of Spain, in the south of Russia, at Lesina and Hermanstadt, the weather was dry on the Continent. At San Fernando the temperature rose to 81°, and readings above 70° occurred at some other stations in the far south; 79° at Tunis and Sfax. Over a large area in central Europe the maxima were about 50°, but in these Islands they were again a little above 60° in several localities.



Oct. 11th.—Pressure increased decidedly over Iceland and the north and north-west of these Islands during day, and the gale at Skudesnaes and in the north-west of Iceland subsided. Slight to moderate amounts of rain fell in Russia and the extreme west and north of the United Kingdom, but generally the weather was dry. Temperature rose to 80° on the coast of Algeria, and to 70° or rather above at various places in southern Europe. In several parts of England and in central Ireland the maxima were about 60°, but at Walton-on-the-Naze and in London, where fog prevailed, the respective readings were 47° and 52°. In Germany and Austria-Hungary the thermometer did not generally rise above 50°.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 12TH. OCTOBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ☰ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 42. FORTY-SECOND WEEK, SUNDAY, OCTOBER 13TH, TO SATURDAY, OCTOBER 19TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. In Ireland and the north and north-west of Britain rain was experienced almost daily over a large area, but in the south and east of the Kingdom, rain was less frequent, and several days were fair to bright.

Temperature was above the average generally, but only equal to it in England East, and slightly below it in England South-East In Ireland the excess amounted to more than 2½°. The highest of the maxima occurred at most stations on the 13th and 14th, and ranged from 65° in the Midland Counties and the English Channel to 59° in Scotland North and West. The lowest of the minima, which were generally registered either on the 15th or later in the week, varied from 25° in Scotland East, 26° in England South-West, and 29° in England South-East to 36° in England North-East and to 43° in the English Channel. The lowest grass readings were 20° at Crathes, 21° at Birmingham, 22° at Hampstead, Balmoral, and West Linton, and 24° at Kew and Newton Rigg. The earth thermometers remained below the average, both at the depth of 1 foot and 4 feet.

Mean Temperature of the Sea. At every station except Kirkwall, Aberdeen, and Cleggan the water was colder than the average, but in several localities it was warmer than during the corresponding week of last year, as much as 4° at Lerwick and Cleggan. The values ranged from 56° at Plymouth and Salcombe to less than 50° on many parts of the northern coasts, and to 47° at Berwick.

Rainfall was less than the average in the greater part of England, and also in Scotland East and Ireland South, but exceeded it in Scotland North and West, England North-West, and Ireland North. Falls of an inch or more were recorded on the 13th at Castlebay, Fort William, and Crieff, and on the 15th at many places in Scotland, 1·3 in. at Rothesay and 1·7 in. at Fort William. At a few places in the Midlands and Eastern and Southern England rain fell on only 2 days, and at Dungeness on only 1 day.

Bright Sunshine was below the normal generally, but above it in England East and South-East and the English Channel. In this last district the mean daily duration was 4·9 hours, and in England South-East 4·6 hours. In Scotland North and West it was less than 2 hours. The percentage of the possible duration ranged from 46 in the English Channel, and 44 in England South-East, to 13 in Scotland North.

Barometer and Wind. Cyclonic conditions prevailed over the Kingdom generally, but as the centres of the systems were mostly some distance to the north-westward or northward of these Islands the southern and eastern districts of England were at times more under the influence of an anticyclone extending from the Continent, and the winds were moderate or light. On the western and northern coasts of the Kingdom the Southerly to South-Westerly or Westerly wind was often fresh or strong, and a gale was occasionally experienced at some of the most exposed points.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 167.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Moderate	Unusual	Moderate	Unusual	Unusual	Moderate
	Rainfall ...	Very heavy	Moderate	Very light	Light	Light	Very light	Heavy	Moderate	Light	Moderate	Moderate	Light
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Moderate	Abundant	Scanty	Scanty	Moderate	Scanty	Scanty	Abundant

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 7 weeks from Sept. 1st, 1912.	Warmth ...	0 * 4	1 * 3	1 * 4	0 * 5	2 * 4	0 * 5	1 * 4	1 * 5	0 * 4	2 * 3	1 * 2	0 * 5
	Rainfall ...	2 * 5	3 * 3	1 * 4	2 * 5	0 * 6	1 * 6	2 * 5	0 * 5	1 * 6	0 * 5	0 * 5	1 * 5
	Sunshine ...	3 * 4	2 * 4	2 * 1	2 * 2	1 * 1	3 * 2	1 * 2	4 * 3	4 * 2	3 * 2	1 * 3	4 * 2

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(26823—24.) Wt. 173—814. 450. 10/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean	Difference from Average.	Mean.	Difference from Average.								
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
a, Islands.. *p Baltasound* .. S	*52*	*14th*	*35*	*18th*	*50·4*	*41·7*	*45·9*	—	*29*	*1*	•	•	46·7		•	•	7	*1·77*	—	*0·8*	—	*8*	—	*Baltasound.*
a Lerwick	54	14th	39	18th	50·9	43·9	47·3	+ 1·6	37	0	•	•	•		•	•	6	2·30	—	1·3	- 1·0	13	-13	Deerness.
a Stornoway	55	13, 18	35	13th	52·3	42·3	47·2	+ 1·3	36	0	•	•	•		•	•	7	2·93	+ 1·65	1·5	- 1·2	15	-12	Stornoway.
a Castlebay, Barra Isd.	*64*	*18th*	*43*	*18th*	*52·4*	*45·7*	*49·0*	+ *1·0*	*49*	*0*	•	•	•		•	•	7	*1·97*	—	*1·8*	—	*18*	—	*Castlebay.*
a Wick	54	13, 14	35	18th	52·1	41·7	46·8	+ 0·5	35	1	•	•	•		•	•	7	0·62	- 0·11	•	•	•	•	
b, Main- *p* Strathpeffer ..	59	13th	35	18th	53·9	40·1	46·8	+ 1·5	42	5	•	•	•		•	•	6	0·76	+ 0·10	1·2	- 1·7	12	-16	Strathpeffer.
land. *p* Glencarron ..	59	13th	37	18th	51·2	42·3	46·6	+ 2·0	32	0	•	•	•		•	•	7	3·91	+ 1·78	•	•	•	•	
p Fort Augustus..	58	13th	32	18th	53·7	42·0	47·7	+ 1·9	40	0	•	•	•		•	•	6	2·09	+ 1·13	1·3	- 0·7	13	- 7	Fort Augustus.
p Fort William ..	56	13, 14	37	18th	53·0	42·9	47·8	+ 0·7	41	0	•	•	•		•	•	7	5·20	+ 3·47	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	61	18th	35	18th	56·6	41·4	48·8	+ 1·9	50	2	4	20	48·0	-1·5	49·5	-1·9	—	—	—	2·0	—	20	—	Crathes S.
a Nairn	60	13th	33	18th	56·3	40·7	48·3	+ 2·1	50	4	•	•	•	•	•	•	6	0·58	- 0·19	*1·4*	—	*14*	—	*Gordon Castle.*
a Aberdeen ..	59	14th	34	18th	54·7	41·0	47·7	+ 0·8	44	3	•	•	•	•	•	•	6	0·69	+ 0·15	1·7	—	17	—	Nairn.
a Balmoral ..	57	14th	25	18th	55·0	35·7	45·1	+ 2·3	48	18	4	22	•	•	48·7	-1·8	4	0·43	- 0·23	2·1	- 1·1	21	-11	Aberdeen.
p Crieff	57	17th	34	18th	53·9	39·9	46·7	- 0·1	42	6	•	•	•	•	•	•	6	0·43	- 0·42	•	•	•	•	Balmoral.
a Leith	62	14th	39	18th	57·3	46·1	51·5	+ 3·3	67	0	•	•	•	•	•	•	5	1·50	+ 0·63	1·9	—	19	—	Balruddery.
p West Linton ..	57	14th	30	18th	52·3	37·3	44·6	- 0·6	38	13	4	22	•	•	•	•	3	0·06	- 0·42	•	•	•	•	
p Marchmont ..	59	14th	35	18th	54·0	40·6	47·1	+ 1·5	42	4	1	30	46·4	-2·3	•	•	7	1·17	—	*1·3*	—	*13*	—	*West Linton.*
2. ENGLAND, N.E.																	4	0·26	- 0·56	2·6	- 0·2	25	- 2	Marchmont.
a Alnwick Castle ..	61	14th	36	18th	56·4	42·3	49·1	+ 1·9	50	0	1	30	46·1	-2·3	48·6	-2·0	4	0·12	- 0·72	2·1	—	20	—	Cockle Park.
a Shields	63	14th	37	18th	57·4	40·4	48·7	+ 0·8	54	4	•	•	•	•	•	•	3	0·14	- 0·56	•	•	•	•	*Newcastle.*
p Durham	59	14th	38	18th	55·4	42·3	48·7	+ 1·7	47	0	0	32	•	•	•	•	3	0·12	- 0·62	2·4	- 0·5	23	- 5	Durham.
a, North .. *p* Rounton	61	14th	36	18th	56·4	39·7	47·8	+ 1·0	50	6	3	29	48·1		•	•	5	0·27	- 0·45	•	•	•	•	Rounton.
a West Witton ..	*60*	*13th*	*36*	*18th*	*55·1*	*40·3*	*47·5*	—	*46*	*5*	0	31	47·2		48·9		*4*	*0·35*	—	•	•	•	•	*West Witton.*
p Scarborough ..	63	14th	40	15, 18	57·0	45·0	50·8	+ 2·2	62	0	•	•	•	•	51·6†	•	5	0·25	- 0·50	2·7	—	26	—	Scarborough.
p York	63	14th	38	13th	58·1	42·0	49·8	+ 1·6	55	0	•	•	49·7	-2·7	51·8	-1·9	4	0·26	- 0·34	2·6	- 0·1	25	- 1	York.
b South .. *a* Spurn Head ..	61	14th	43	15, 16, 19	56·0	43·9	49·8	- 0·1	55	0	2	29	47·0	-3·9	51·1	-2·2	5	0·45	- 0·10	*2·5*	—	*24*	—	*Hull.*
a Lincoln	63	14th	37	13, 15	56·7	40·7	48·5	+ 0·3	51	4	•	•	46·9	-4·8	50·8	-3·1	4	0·17	- 0·41	•	•	•	•	Lincoln.
a Fulbeck	63	14th	36	15th	56·4	40·7	48·3	+ 0·5	50	4	2	26	49·5	-2·1	51·9	-2·4	5	0·18	- 0·41	4·1	—	39	—	Ranceby.
3. ENGLAND, E.											•	•	•	•	•	•	—	—	—	3·9	—	38	—	Skegness.
p Cromer	62	14th	37	13th	56·3	41·3	48·6	+ 0·3	49	2	0	34	49·6	-4·3	52·9	-3·0	—	—	—	*4·2*	—	*40*	—	*Lowestoft.*
p Hillington											•	•	•	•	•	•	4	0·13	—	3·6	—	35	—	Cromer.
a, North .. *a* Yarmouth	62	14th	38	19th	57·0	39·6	48·0	- 1·7	52	7	•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a Norwich	63	14th	35	13th	57·0	40·7	48·6	0·0	52	4	•	•	49·1	-5·0	52·9	-3·3	4	0·27	- 0·43	3·9	—	38	—	Yarmouth.
p Geldeston	63	14th	32	13th	58·6	39·7	48·9	- 0·5	58	6	3	28	47·8	•	•	•	4	0·34	—	*3·6*	—	*35*	—	*Norwich.*
p Cambridge	64	14th	32	15th	58·7	38·1	48·1	- 0·5	59	11	•	•	•	•	•	•	5	0·21	- 0·46	4·1	+ 0·6	39	+ 6	Geldeston.
a Felixstowe ..	*61*	*14th*	*37*	*13th*	*57·3*	*42·3*	*49·6*	- *0·9*	*53*	*0*	3	27	48·8	-4·3	52·7	-3·0	2	0·04	- 0·49	4·3	+ 0·9	41	+ 9	Cambridge.
b, South .. *a* Clacton-on-Sea ..	60	14th	34	13th	56·6	39·9	48·0	- 2·3	51	6	•	•	•	•	•	•	*4*	*0·17*	—	*5·1*	—	*49*	—	*Felixstowe.*
a Rothamsted	62	14th	32	15, 18	58·0	37·6	47·5	- 0·7	57	12	0	31	51·1	-4·3	53·7	-2·5	3	0·10	—	4·3	—	41	—	Clacton.
a Shoeburyness ..	*60*	*13, 14*	*32*	*13th*	*57·6*	*41·0*	*49·1*	- *1·8*	*54*	*3*	•	•	•	•	•	•	4	0·11	- 0·56	4·7	+ 1·2	45	+12	Rothamsted.
p Tottenham	63	13, 14	33	16th	56·9	41·7	49·1	+ 0·5	51	1	4	28	51·6	-4·4	•	•	*3*	*0·12*	- *0·35*	*5·3*	—	*51*	—	*Southend.*
4. MIDLAND COUNTIES.											2	28	•	•	53·2	-4·1	2	0·15	—	3·1	—	30	—	Tottenham.
a Harrogate	59	14th	37	13th	55·4	41·4	48·2	+ 1·4	46	2	0	35	47·3	-4·0	50·2	-2·6	—	—	—	*2·3*	—	*22*	—	*Huddersfield.*
a Bawtry	64	14th	33	13th	58·0	41·3	49·4	+ 2·1	55	2	1	30	47·9	-2·6	49·3	-2·1	4	0·55	- 0·19	2·4	—	23	—	Harrogate.
p Buxton	*59*	*14th*	*38*	*15, 16*	*54·3*	*41·1*	*47·5*	+ *2·7*	*42*	*3*	4	28	47·8	•	50·1	•	4	0·15	- 0·42	1·8	- 0·9	17	- 9	Worksop.
a East .. *a* Nottingham	63	14th	35	15, 16	56·9	38·1	47·2	- 0·8	53	11	0	31	47·9	-3·4	50·7	-3·6	*6*	*0·89*	- *0·29*	*2·6*	—	*25*	—	*Buxton.*
p Birmingham, Edgbsn.	60	14th	39	15th	54·9	42·7	48·6	+ 0·9	46	0	4	21	48·3	-2·1	50·1	-2·1	5	0·26	- 0·29	2·5	—	24	—	Nottingham.
a Raunds	64	13, 14	32	15th	59·1	37·9	48·2	+ 0·1	61	11	2	29	49·2	•	53·5	•	5	0·19	- 0·41	2·2	—	21	—	Birmingham.
a Oxford	63	14th	33	15, 16	58·0	37·1	47·2	- 1·2	57	14	2	26	•	•	•	•	2	0·02	—	•	•	•	•	Raunds.
a Cheadle	59	17th	36	15th	55·4	40·9	47·9	+ 1·5	46	3	0	32	48·6	-2·5	50·7	-2·2	—	—	—	3·1	—	30	—	Oxford.
p Shrewsbury	62	13th	31	15th	59·9	37·6	48·4	+ 0·4	63	12	2	29	•	•	•	•	5	0·49	- 0·21	•	•	•	•	Sheffield.
b, West .. *a* Hereford	62	14th	30	15th	57·9	38·3	47·8	- 0·6	56	10	1	29	•	•	•	•	3	0·14	—	•	•	•	•	Cheadle.
a Cirencester	60	13, 14	30	15th	56·0	36·6	46·0	- 1·5	51	15	1	27	•	•	•	•	4	0·13	- 0·47	•	•	•	•	Shrewsbury.
a Bath	65	13th	31	15, 16	59·6	36·0	47·5	- 2·1	64	17	1	29	48·9	•	51·1	•	4	0·22	- 0·45	3·2	0·0	31	0	Hereford.
5. ENGLAND, S.E.											•	•	50·2	-5·1	54·3	-2·9	3	0·28	- 0·39	4·4	—	42	—	Cirencester.
p Kew	62	13th	32	16th	57·3	40·4	48·6	- 0·4	53	4	1	29	48·7	-5·1	53·2	-2·6	—	—	—	•	•	•	•	Bath.
a Marlborough	61	13th	29	15th	56·6	36·0	46·0	- 1·1	53	17	4	24	48·4	-5·6	52·1	-3·2	3	0·07	- 0·54	4·0	+ 1·0	39	+ 9	Canterbury.
a Margate	63	14th	41	16, 18	58·6	46·0	52·1	+ 1·1	71	0	4	25	•	•	51·9	•	4	0·25	- 0·48	2·3	- 0·8	22	- 8	Kew.
a Wisley, Surrey ..	63	13th	32	16th	58·0	39·1	48·3	- 1·5	56	8	•	•	49·7	-3·5	52·0	-3·5	3	0·11	- 0·51	4·7	+ 1·2	45	+12	Marlborough.
a Swarraton	62	13th	29	16th	56·9	37·3	46·8	- 1·0	53	13	4	26	49·1	-4·2	51·9	-3·7	2	0·06	—	4·7	—	45	—	Margate.
a Tunbridge Wells ..	61	13th	36	18th	56·9	41·1	48·8	+ 0·1	51	3	0	31	50·4	-4·8	53·9	-3·1	2	0·17	- 0·63	5·4	—	51	—	Wisley
a Dungeness	60	13, 14	33	13th	58·1	38·7	48·1	- 3·8	57	9	1	29	48·3	-5·5	•	•	2	0·17	- 0·63	5·3	+ 1·8	51	+17	Worthing.
p Hastings.. ..	62	13th	41	18th	58·7	45·1	51·7	+ 0·6	68	0	•	•	•	•	•	•	1	0·06	- 0·64	5·2	—	50	—	Tunbridge Wells.
p Southampton ..	63	13th	35	16th	58·9	42·7	50·6	- 0·2	60	0	0	34	51·3	•	•	•	3	0·15	- 0·69	*5·7*	+ *1·8*	*54*	+*17*	Littlestone.
a Ventnor	61	13th	43	15th	58·9	47·6	53·1	+ 0·6	78	0	1	30	•	•	53·8	•	4	0·08	- 0·72	3·5	- 0·1	34	- 1	*Hastings.*
											•	•	•	•	•	•	3	0·12	- 0·42	5·0	+ 1·1	47	+10	Southampton
											0	31	50·4	-4·5	53·5	-3·8	—	—	—	*4·6*	—	*43*	—	Ventnor.
											•	•	51·6	•	54·5	•	—	—	—	5·7	+ 1·9	54	+18	*Portsmouth.*
											•	•	50·2	•	51·7	•	—	—	—	*4·9*	—	*46*	—	Eastbourne.
LONDON.											0	34	•	•	53·3	•	—	—	—	*5·2*	+ *1·3*	*49*	+*12*	*Bournemouth.*
a Westminster	*64*	*13th*	*36*	*16th*	*58·7*	*41·1*	*49·6*	+ *0·8*	*57*	*3*	1	30	•	•	•	•	*3*	*0·11*	- *0·43*	*3·3*	+ *1·1*	*32*	+*11*	*Brighton.*
a Greenwich	*66*	*13th*	*34*	*15th*	*59·6*	*40·3*	*49·7*	+ *0·4*	*61*	*5*	4	25	•	•	•	•	*3*	*0·11*	- *0·45*	*4·1*	+ *1·1*	*39*	+*10*	*Westminster.*
a Hampstead	*62*	*13th*	*38*	*18th*	*57·3*	*42·0*	*49·4*	—	*52*	*0*	4	22	•	•	•	•	*3*	*0·13*	—	*4·2*	—	*40*	—	*Greenwich.*
a Camden Square ..	*62*	*13th*	*36*	*15, 16*	*58·7*	*40·6*	*49·4*	—	*58*	*4*	0	32	•	•	•	•	*3*	*0·13*	—	*3·5*	—	*34*	—	*Hampstead.*
6. *a*, SCOTLAND, W.																								*Camden Square.*
a Poltalloch .. S	58	13th	37	18th	52·9	45·1	48·9	+ 1·3	48	0	•	•	•	•	•	•	7	3·12	+ 1·98	•	•	•	•	
p Glasgow	59	13th	41	18th	54·4	45·1	49·6	+ 3·0	53	0	1	29	•	•	•	•	7	1·64	+ 0·87	1·6	- 0·7	16	- 7	Glasgow.
p Rothesay ..	59	13th	39	17, 18	55·6	44·4	49·8	+ 2·2	55	0	•	•	•	•	50·0	-1·5	7	2·86	+ 1·89	•	•	•	•	
a Kilmarnock ..	58	13th	36	18th	54·0	43·7	48·7	+ 1·7	47	0	•	•	•	•	•	•	5	1·79	—	*1·5*	—	*15*	—	*Kilmarnock.*
a Colmonell ..	59	13th	38	18th	54·9	45·6	50·1	+ 2·7	57	0	0	34	•	•	•	•	7	2·26	+ 1·24	•	•	•	•	
p Dumfries ..	58	14th	36	18th	54·6	42·3	48·3	+ 1·3	44	0	2	28	48·7	•	51·0	•	6	1·29	+ 0·46	*1·9*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse	58	15th	35	18th	55·6	40·3	47·7	+ 0·8	47	5	•	•	•	•	•	•	6	3·00	+ 1·90	•	•	•	•	
b I. OF MAN.																								
p Douglas	57	18th	42	14, 15, 18	54·4	45·1	49·6	+ 1·5	53	0	0	36	•	•	•	•	6	1·49	+ 0·45	2·1	- 1·2	20	-12	Douglas.
											2	29	47·7	-2·4	49·6	-2·5	—	—	—	*1·8*	—	*17*	—	*Burnley.*
											0	37	•	•	•	•				2·2	—	21	—	Hoylake.
7. *a*, ENGLAND, N.W.											0	31	49·8	•	50·9	•	6	1·77	+ 0·85	2·4	—	23	—	Aspatria.
p Aspatria	57	13, 14	41	14, 18	54·7	43·6	49·0	+ 1·9	49	0	0	34	•	•	•	•	6	1·84	+ 0·76	1·4	- 1·4	14	-14	Stonyhurst.
p Newton Rigg	58	13th	34	18th	54·7	42·1	48·2	+ 2·4	43	0	4	24	48·9	-2·1	49·8	-2·4	5	0·86	- 0·01	2·4	- 0·3	23	- 3	Newton Rigg.
p Stonyhurst	58	14th	41	15, 18	54·7	43·0	48·7	+ 1·8	47	0	0	34	•	•	•	•	6	1·89	+ 0·89	1·8	- 1·2	17	-11	Blackpool.
p Blackpool	57	14th	43	18th	55·1	47·1	51·0	+ 2·3	63	0	2	27	50·0	•	51·7	•	5	0·72	—	*1·6*	—	*15*	—	*Whit. Park.*
p Manchester (Whit. Pk.)	*61*	*14th*	*38*	*15th*	*56·3*	*43·0*	*49·5*	—	*53*	*0*	4	28	•	•	•	•	4	0·60	- 0·17	*2·4*	—	*23*	—	*Liverpool.*
a Liverpool (Bidston) ..	59	13, 14	44	13th	56·1	45·4	50·6	+ 1·1	60	0	•	•	•	•	•	•	5	0·33	- 0·36	*2·0*	- *0·8*	*19*	- *8*	*Southport.*
a Hawarden Bridge ..	62	14th	38	15th	58·1	44·7	51·2	+ 1·6	64	0	0	31	48·7	-2·4	51·0	-3·1	5	0·33	- 0·36	*2·0*	- *0·8*	*19*	- *8*	*Southport.*
b, NORTH WALES.											0	37	48·4	-3·3	51·9	-3·0	—	—	—	*1·3*	—	*13*	—	*Manchester City).*
p Llandudno	60	13th	43	15th	56·6	47·9	52·1	+ 1·4	71	0	•	•	•	•	•	•	5	0·62	+ 0·09	2·2	- 0·6	21	- 6	Llandudno.
a Holyhead	57	13, 14	47	15th	55·9	49·1	52·4	+ 1·9	73	0	•	•	•	•	•	•	6	1·30	+ 0·43	2·9	—	28	—	Aberdovey.
p Bettws-y-Coed ..	60	14th	41	18th	56·0	45·1	50·4	+ 0·6	59	0	0	40	48·9	-1·5	50·0	-2·4	5	1·45	—	1·4	—	14	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	59	13th	26	15th	55·3	36·3	45·5	− 1·2	48	16	2	25	47·5	−4·4	50·5	−2·9	5	0·73	—	2·6	—	25	—	Aberystwyth.
a Pembroke	58	13th	44	15th	56·4	50·6	53·4	+ 2·1	80	0	•	•	•	•	•	•	4	0·62	− 0·25	1·4	—	14	—	Llangammarch
p Cardiff	60	13, 14	36	15th	56·7	41·4	48·8	+ 0·4	50	2	1	28	49·1	−3·9	52·1	−2·9	5	0·62	− 0·42	2·7	− 0·7	26	− 6	Pembroke.[Wells
																				3·2	—	*31*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	61	13th	38	15th	57·0	43·0	49·8	+ 1·1	55	0	0	32	•	•	•	•	3	0·35	− 0·48	*3·9*	—	*38*	—	*Clifton.*
a Shaftesbury	59	13th	39	15th	56·0	42·3	49·0	+ 0·5	49	0	•	•	50·8	•	53·0	•	2	0·13	− 0·67	•	•	•	•	Shaftesbury.
a Arlington											•	•	52·3	•	•	•	—	—	—	3·9	+ 0·3	37	+ 3	Newquay.
a Cullompton	62	14th	31	15th	58·9	39·1	48·7	− 0·5	59	8	1	30	50·5	•	•	•	4	0·29	− 0·55	2·8	− 0·3	26	− 3	Cullompton.
a Portland	58	13,14,17	45	15th	57·4	48·7	52·9	+ 0·5	76	0	•	•	•	•	•	•	2	0·05	—	*4·3*	—	*41*	—	*Weymouth.*
p Plymouth	60	14th	38	18th	57·8	44·3	50·9	− 0·3	62	0	2	27	51·4	−3·5	•	•	5	0·32	− 0·51	3·0	− 0·5	28	− 5	Plymouth.
p Falmouth	60	14th	44	15, 16	56·9	47·3	52·0	+ 0·4	70	0	•	•	•	•	•	•	5	0·34	− 0·74	4·0	+ 0·2	38	+ 2	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	57	13th	45	15, 18	53·4	46·1	49·6	+ 0·7	53	0	•	•	•	•	•	•	7	0·90	+ 0·18	•	•	•	•	
a Blacksod Point ..	57	13, 18	47	14,15,19	55·3	48·4	51·8	+ 1·9	69	0	•	•	•	•	•	•	6	1·72	+ 0·56	•	•	•	•	
p Markree Castle ..	60	13th	35	15th	57·1	42·0	49·3	+ 2·1	51	0	1	30	51·8	•	52·6	•	6	1·24	+ 0·31	2·2	− 0·7	21	− 6	Markree Castle.
a Birr Castle	62	13th	39	15th	56·9	43·0	49·7	+ 2·5	54	0	•	•	•	•	•	•	6	0·73	+ 0·10	*1·9*	− *1·3*	*18*	− *12*	*Birr Castle.*
b, East .. { *p* Armagh	61	13th	41	17th	56·1	43·6	49·7	+ 2·4	54	0	0	35	49·5	−2·5	52·0	−1·8	5	0·27	− 0·33	1·7	− 1·2	17	−12	Armagh.
a Donaghadee	59	13th	41	15,17,18	55·4	45·4	50·3	+ 1·4	58	0	•	•	•	•	•	•	4	0·81	+ 0·18	•	•	•	•	
											0	33	51·2	−1·5	51·9	−2·3	—	—	—	•	•	•	•	Trinity Coll.
											2	28	•	•	•	•	—	—	—	2·1	− 1·4	20	−13	Phœnix Park.
10. IRELAND, S.																								
a, East .. { *p* Dublin, City	63	13th	44	15, 17	58·6	46·1	52·2	+ 3·0	71	0	0	39	•	•	•	•	4	0·34	− 0·25	•	•	•	•	Dublin City.
a Kilkenny	61	13, 18	33	15th	57·6	42·4	49·8	+ 1·7	55	0	•	•	•	•	•	•	5	0·33	− 0·32	•	•	•	•	
a Waterford	59	18th	35	15th	56·9	42·6	49·5	+ 0·4	53	0	•	•	•	•	•	•	4	0·58	+ 0·08	•	•	•	•	
a Birr Castle	62	13th	39	15th	56·9	43·0	49·7	+ 2·5	54	0	•	•	•	•	•	•	6	0·73	+ 0·10	1·9	− 1·3	18	−12	Birr Castle.
a Foynes	61	13th	42	15th	57·6	47·7	52·5	+ 3·0	74	0	•	•	•	•	•	•	6	0·81	− 0·03	•	•	•	•	
a Cahir	61	18th	34	15th	56·4	44·4	50·2	+ 0·8	57	0	•	•	•	•	•	•	5	0·52	—	•	•	•	•	
b, West .. { *a* Killarney	64	18th	41	15th	58·7	48·1	53·2	+ 3·9	78	0	•	•	•	•	•	•	7	0·71	− 0·49	•	•	•	•	
a Valencia	60	13, 18	42	15th	57·1	50·1	53·5	+ 2·2	81	0	•	•	•	•	•	•	7	1·08	− 0·11	2·1	− 1·3	20	−12	Valencia.
a Roche's Point	59	17, 18	42	15th	57·1	48·7	52·8	+ 1·9	76	0	•	•	•	•	•	•	4	0·82	− 0·07	2·4	—	23	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	58	13, 14	46	15th	57·3	49·9	53·5	+ 0·1	81	0	•	•	•	•	•	•	5	0·21	− 0·58	3·7	− 0·1	35	− 1	Scilly.
a Jersey, St. Aubins ..	63	13th	43	13, 19	60·3	46·9	53·4	− 0·4	80	0	•	•	•	•	•	•	4	0·49	− 0·51	5·6	+ 1·5	53	+14	St. Heliers.
a Guernsey (Villa Carey)	65	13th	45	16th	60·3	49·9	55·0	+ 1·4	91	0	0	38	54·6	−2·1	56·0	−2·6	4	0·59	− 0·43	5·4	+ 1·7	51	+16	Guernsey.*

Additional Sunshine Means:—*Bognor, 5·6 hrs. 53 °/₀; Ramsgate, 5·0 hrs. 48 °/₀; Rhyl, 2·6 hrs. 25 °/₀; Salcombe, 3·7 hrs. 35 °/₀; Tenby, 2·7 hrs. (−0·8) 26 °/₀ (− 8 °/₀); Torquay, 3·9 hrs. (+0·3) 37 °/₀ (+3 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, October 19th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	{ Lerwick	49	49	49·0	−1·3	SCOTLAND, W. ..	{ Lamlash	55	52	52·4	−0·1
	{ Kirkwall	50	49	49·7	+0·5		{ Ballantrae	51	48	49·5	−2·2
	{ Wick	49	48	48·4	−3·4	ENGLAND, N.W. ..	Port Erin	54	54	53·9	−0·3
SCOTLAND, E. ..	{ Cromarty	51	49	49·8	−1·5		{ Newquay	53	53	53·0	−4·4
	{ Pennan Bay	51	50	50·4	−0·1	ENGLAND, S.W. ..	{ Scilly	57	54	55·4	—
	{ Aberdeen, Cove Bay	52	50	50·9	0·0		{ Plymouth‡	56	56	55·9	−0·5
ENGLAND, N.E. ..	{ Burnmouth, Berwick	48	46	47·2	−3·3		{ Salcombe	57	55	55·9	−1·0
	{ Scarborough	51	49	50·5	−1·5	IRELAND, N.W. ..	{ Sheephaven	53	50	51·7	−2·2
ENGLAND, E. ..	{ Shipwash Lightship	56	50	54·0	−3·2		{ Teelin	55	52	53·6	−0·7
	{ Margate‡	59	53	54·5	−2·3	IRELAND, S.W. ..	{ Cleggan	55	53	53·8	+1·4
ENGLAND, S.E. ..	{ Eastbourne‡	54	52	53·3	−4·0		{ Seafield	56	51	53·7	−1·0
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881–1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-SECOND WEEK—October 13th to October 19th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	59	32	52·4	42·2	47·2	+ 1·6	36	+ 1	0	− 9	7	+ 2	2·46	+1·36	1·3	−1·1	13	−11
Eastern.																		
1. SCOTLAND, EAST ...	62	25	55·0	40·3	47·4	+ 2·0	45	+ 8	5	− 6	5	+ 1	0·64	−0·02	2·1	−0·6	20	− 7
2. ENGLAND, N.E.	63	36	56·6	41·9	49·1	+ 1·6	51	+ 8	0	− 5	4	0	0·22	−0·52	3·0	−0·1	29	− 1
3. ENGLAND, EAST ...	64	32	57·4	39·7	48·3	0·0	54	+ 3	6	0	3	− 1	0·17	−0·48	4·0	+0·7	39	+ 7
4. MIDLAND COUNTIES ...	65	30	57·4	38·9	47·9	+ 0·7	54	+ 8	9	+ 1	4	0	0·23	−0·43	2·9	−0·1	28	− 1
5. ENGLAND, S.E.	63	29	57·9	41·4	49·4	− 0·3	54	− 4	2	− 2	3	0	0·12	−0·61	4·6	+1·2	44	+12
Western.																		
6. SCOTLAND, WEST ...	59	35	54·6	44·0	49·1	+ 2·0	50	+ 7	0	− 7	6	+ 2	2·18	+1·16	1·9	−0·8	18	− 8
7. ENGLAND, N.W.	62	34	55·8	45·3	50·4	+ 2·1	59	+ 11	0	− 4	5	+ 2	1·11	+0·25	2·1	−0·6	20	− 6
8. ENGLAND, S.W.	62	26	56·9	43·7	50·1	+ 0·4	57	− 1	0	− 3	4	0	0·38	−0·63	2·9	−0·4	28	− 4
9. IRELAND, NORTH ...	62	35	55·7	44·8	50·1	+ 2·6	57	+ 12	0	− 5	6	+ 2	0·95	+0·14	2·0	−1·0	19	−10
10. IRELAND, SOUTH ...	64	33	57·4	45·9	51·5	+ 2·6	67	+ 13	0	− 4	5	+ 1	0·69	−0·19	2·1	−1·1	21	−11
11. ENGLISH CHANNEL ...	65	43	59·3	48·9	54·0	+ 0·8	84	+ 6	0	0	4	− 1	0·43	−0·49	4·9	+0·9	46	+ 9

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 7 Weeks, September 1st to October 19th, 1912.

0. SCOTLAND, NORTH ...	66	28	*	*	*	*	323	− 73	1	−20	28	− 6	6·26	−1·68	3·2	+0·2	27	+ 1
Eastern.																		
1. SCOTLAND, EAST ...	72	25	*	*	*	*	354	− 71	29	+ 3	19	− 9	4·11	−0·22	3·1	−0·5	26	− 4
2. ENGLAND, N.E.	70	28	*	*	*	*	407	− 93	5	− 5	18	− 7	2·26	−1·48	3·9	−0·1	33	− 1
3. ENGLAND, EAST ...	69	27	*	*	*	*	462	−109	23	+10	17	− 7	2·89	−0·79	4·5	+0·1	38	+ 1
4. MIDLAND COUNTIES ...	70	25	*	*	*	*	429	− 92	38	+20	11	−13	1·47	−2·37	3·7	−0·2	32	− 1
5. ENGLAND, S.E.	68	24	*	*	*	*	468	−160	17	+ 9	12	−11	3·36	−0·89	4·9	+0·4	41	+ 4
Western.																		
6. SCOTLAND, WEST ...	67	22	*	*	*	*	400	− 67	5	− 9	20	− 8	5·20	−1·92	3·7	+0·1	32	+ 1
7. ENGLAND, N.W.	66	26	*	*	*	*	426	−103	4	− 2	17	− 9	2·64	−2·83	3·9	+0·2	33	+ 2
8. ENGLAND, S.W.	72	21	*	*	*	*	468	−123	6	+ 1	12	−15	2·27	−3·63	4·6	+0·3	39	+ 3
9. IRELAND, NORTH ...	67	26	*	*	*	*	440	− 49	0	− 8	18	−13	2·17	−3·39	3·4	0·0	29	0
10. IRELAND, SOUTH ...	72	25	*	*	*	*	500	− 49	3	− 4	19	− 8	1·98	−3·21	3·9	−0·1	33	− 1
11. ENGLISH CHANNEL ...	68	37	*	*	*	*	635	−101	0	0	15	−14	3·08	−1·96	5·6	+0·3	47	+ 2

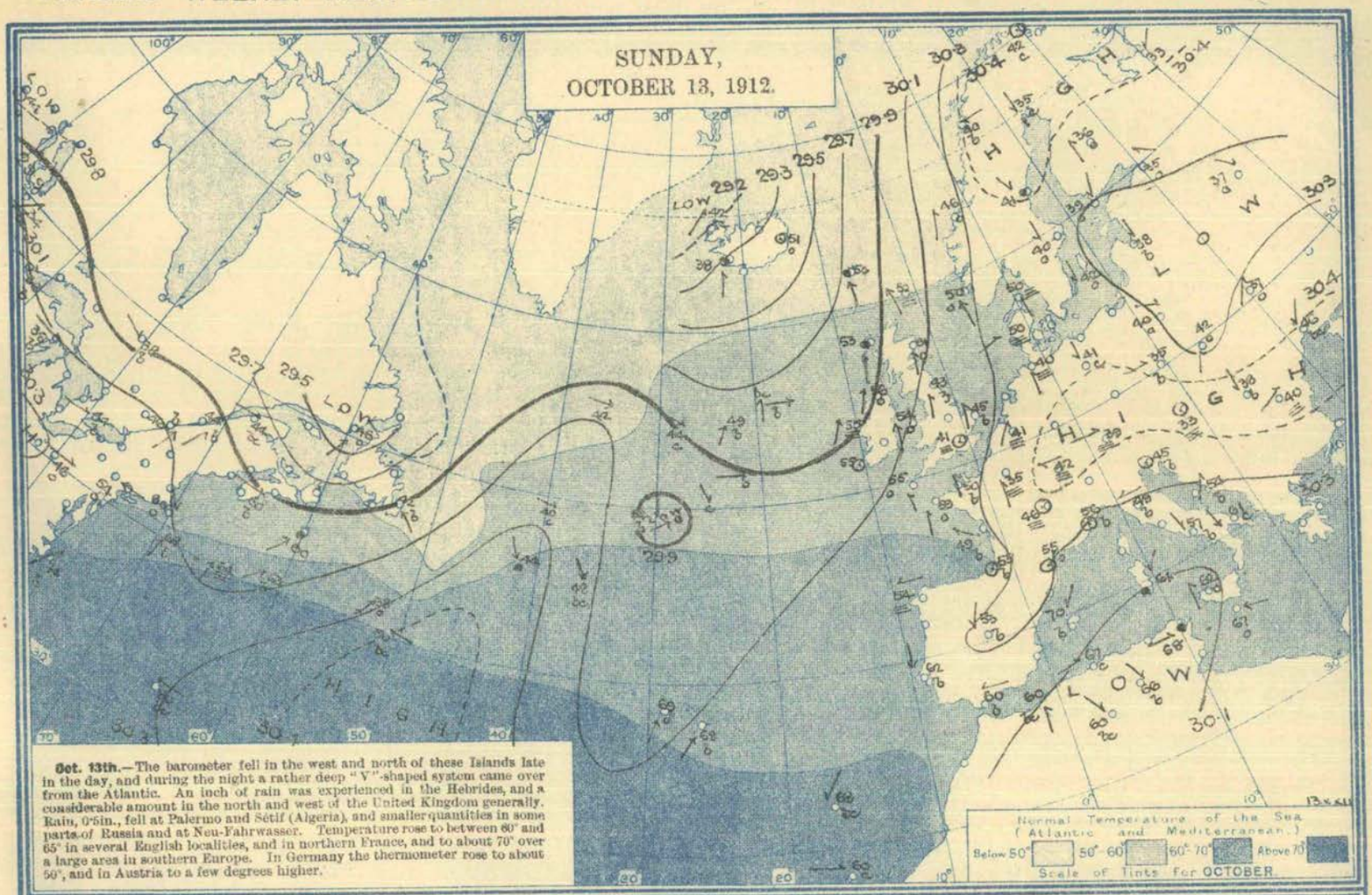
THE YEAR.—Aggregates, &c., for the Period of 42 Weeks, December 31st, 1911, to October 19th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1809	−141	428	−150	188	− 6	36·91	− 2·44	3·2	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2023	−172	548	− 98	166	+ 5	24·85	+ 0·95	3·2	−1·0	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2398	− 52	378	−107	162	+17	24·78	+ 5·58	3·5	−1·0	27	− 8
3. ENGLAND, EAST ...	91	14	*	*	*	*	2896	+ 65	297	−237	151	+11	23·36	+ 4·77	4·4	−0·5	34	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2653	−104	411	−140	147	+ 8	26·88	+ 6·28	3·6	−0·8	28	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	2913	−134	235	−154	141	+ 8	24·72	+ 4·36	4·6	−0·4	35	− 3
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2263	−107	334	−105	168	0	34·58	− 1·39	3·7	−0·6	28	− 4
7. ENGLAND, N.W.	84	7	*	*	*	*	2478	−118	302	− 90	162	+ 8	28·73	+ 2·05	3·8	−0·5	29	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2712	−171	195	−111	167	+15	35·29	+ 6·74	4·0	−0·9	31	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2290	−186	237	−116	163	−20	28·65	− 0·77	3·5	−0·4	27	− 3
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2658	−177	170	− 96	190	+28	32·92	+ 2·55	3·6	−0·9	28	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3342	+ 20	44	− 65	168	+ 6	30·79	+ 7·07	5·1	−0·8	38	− 6

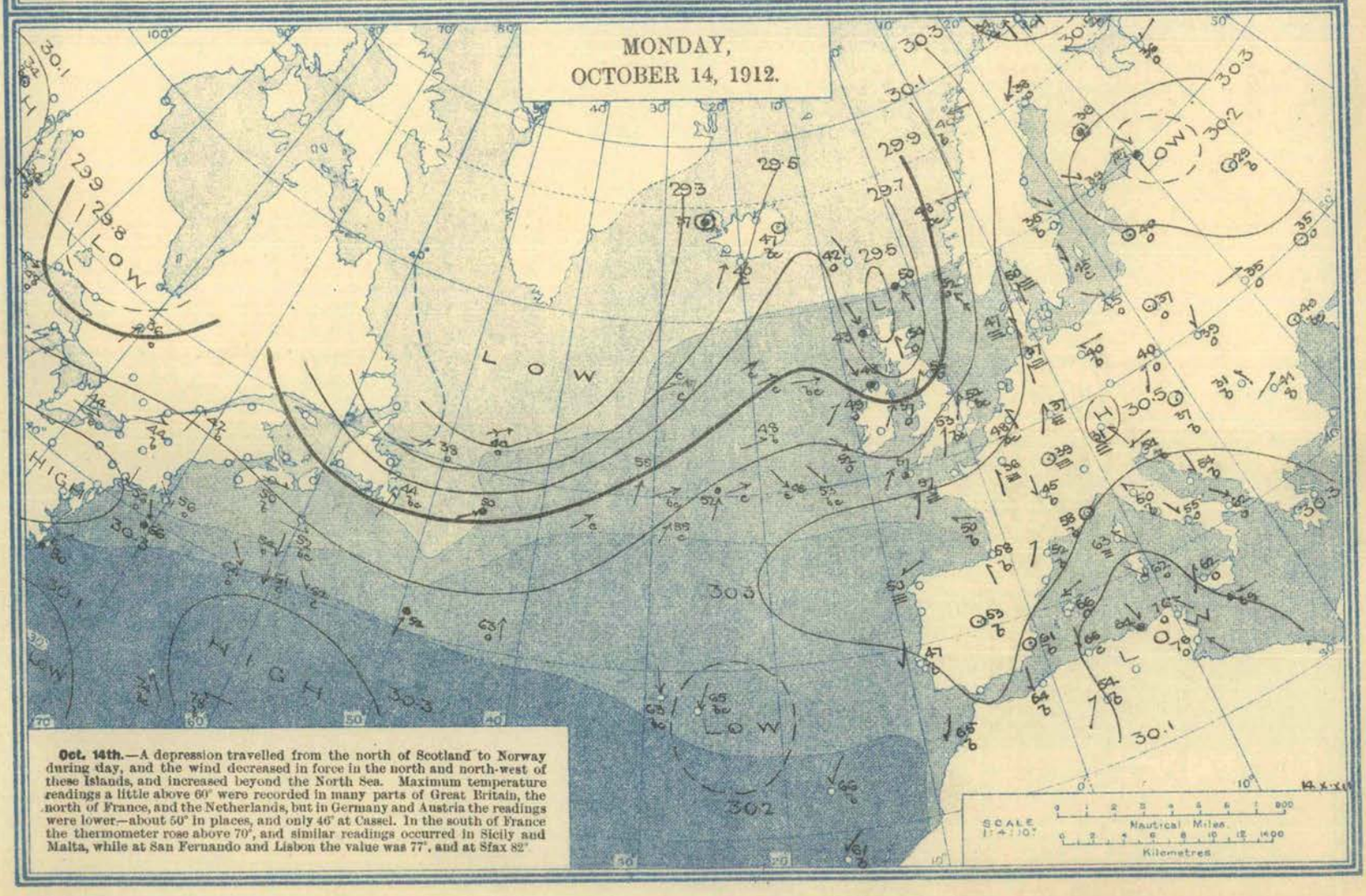
M.O., October 23, 1912.

NOTES ON TABLE IV.

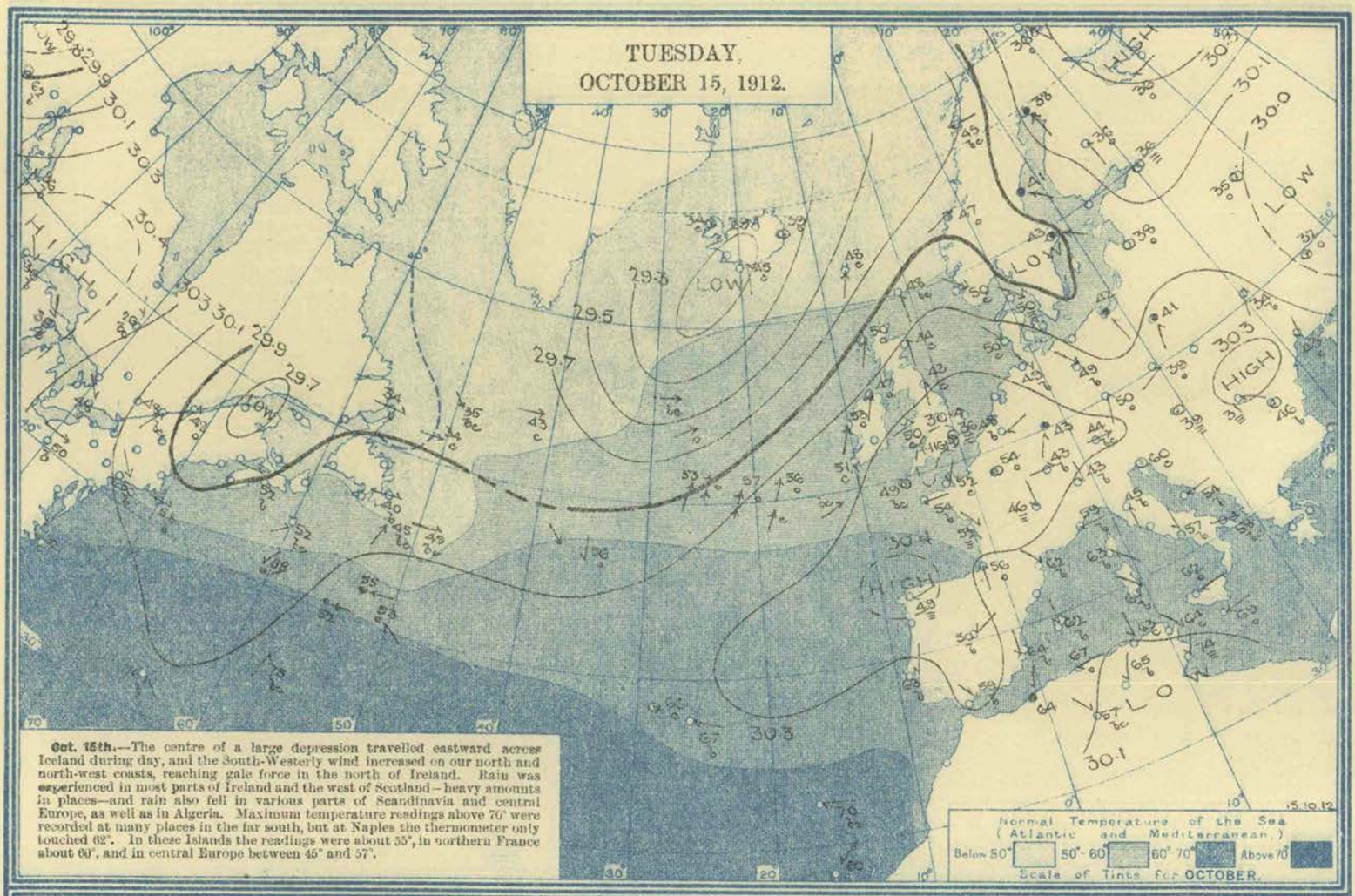
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



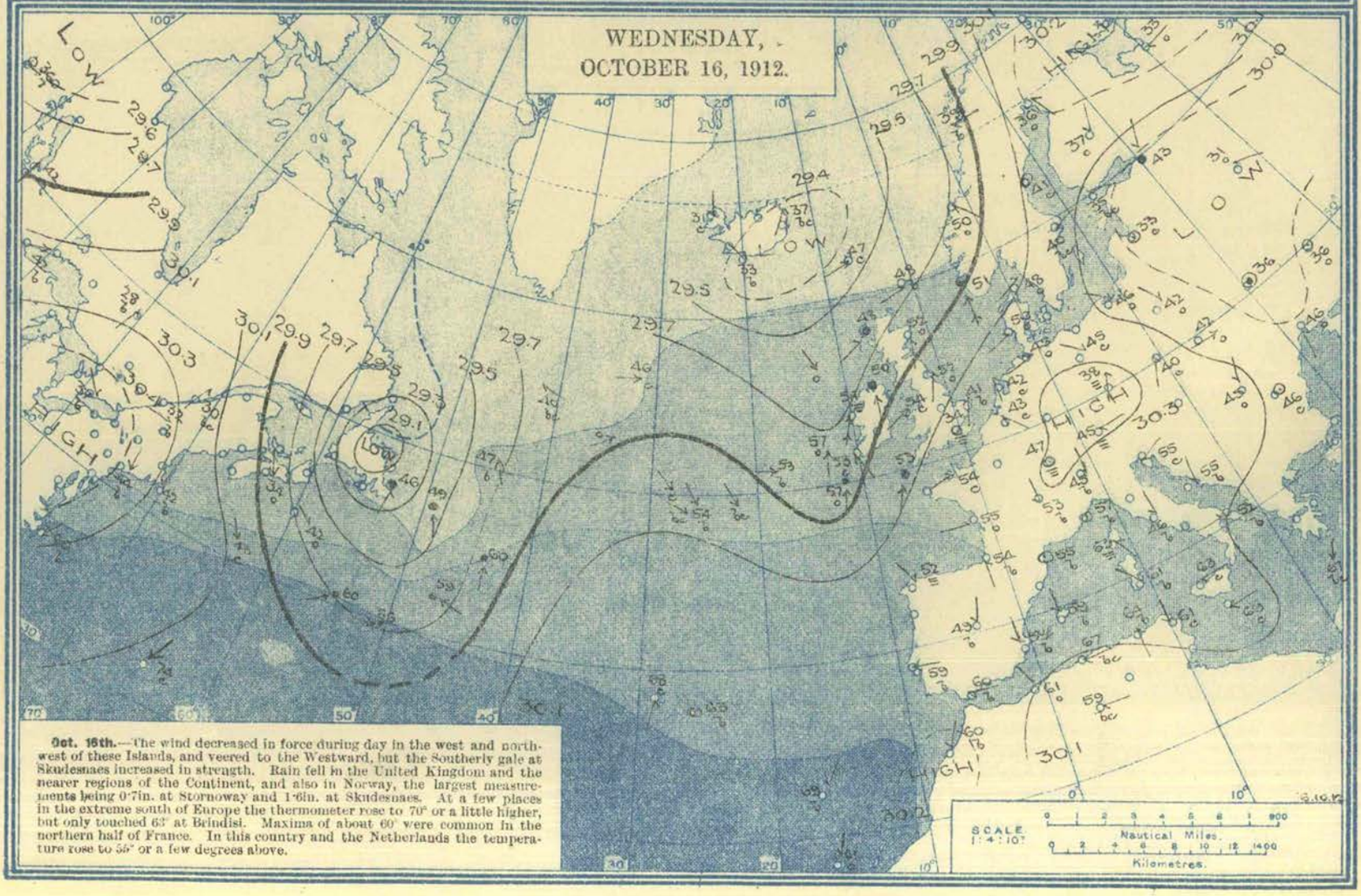
Oct. 13th.—The barometer fell in the west and north of these Islands late in the day, and during the night a rather deep "V"-shaped system came over from the Atlantic. An inch of rain was experienced in the Hebrides, and a considerable amount in the north and west of the United Kingdom generally. Rain, 0·5in., fell at Palermo and Sétif (Algeria), and smaller quantities in some parts of Russia and at Neu-Fahrwasser. Temperature rose to between 60° and 65° in several English localities, and in northern France, and to about 70° over a large area in southern Europe. In Germany the thermometer rose to about 50°, and in Austria to a few degrees higher.



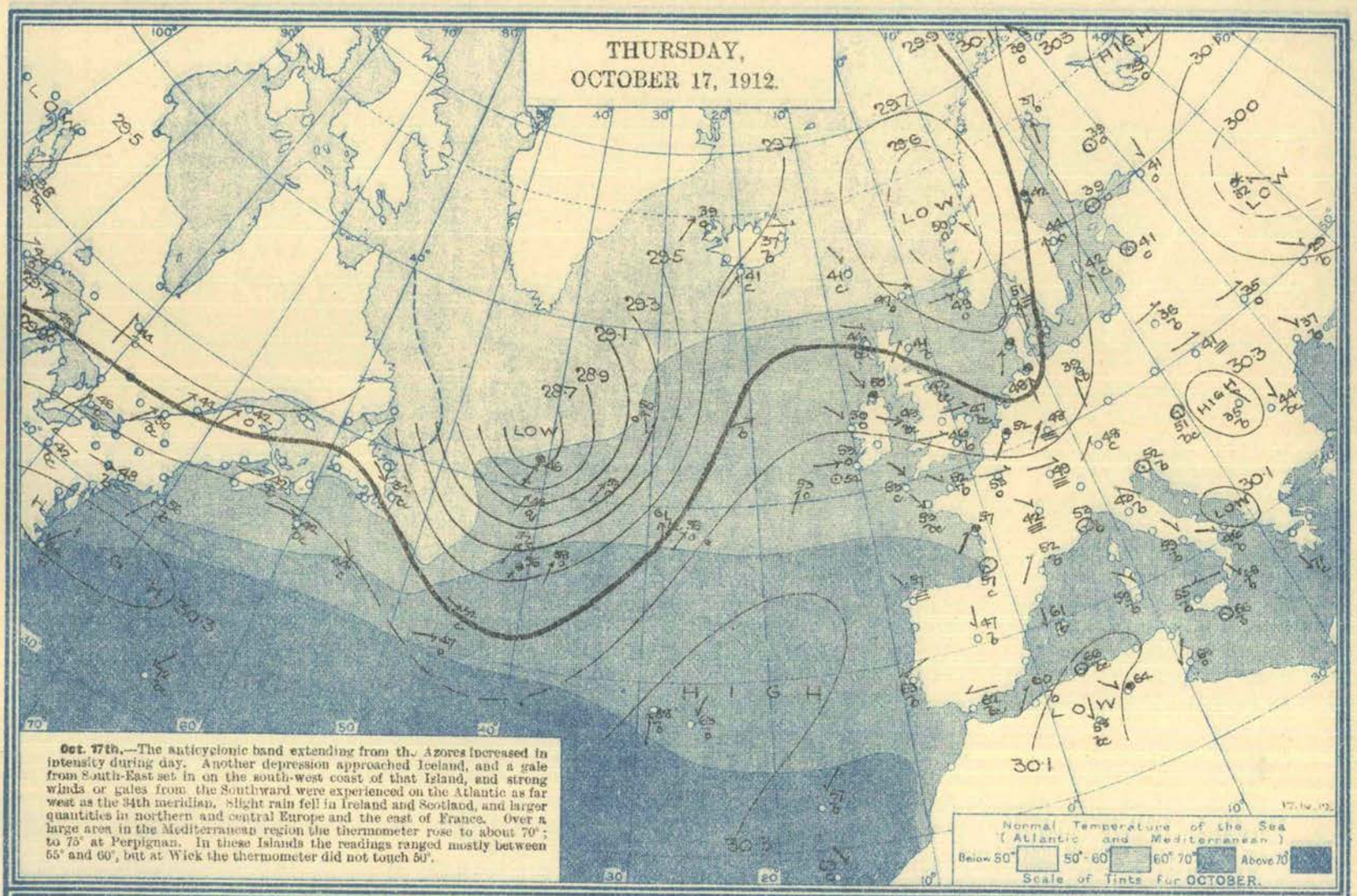
Oct. 14th.—A depression travelled from the north of Scotland to Norway during day, and the wind decreased in force in the north and north-west of these Islands, and increased beyond the North Sea. Maximum temperature readings a little above 60° were recorded in many parts of Great Britain, the north of France, and the Netherlands, but in Germany and Austria the readings were lower,—about 50° in places, and only 46° at Cassel. In the south of France the thermometer rose above 70°, and similar readings occurred in Sicily and Malta, while at San Fernando and Lisbon the value was 77°, and at Sfax 82°



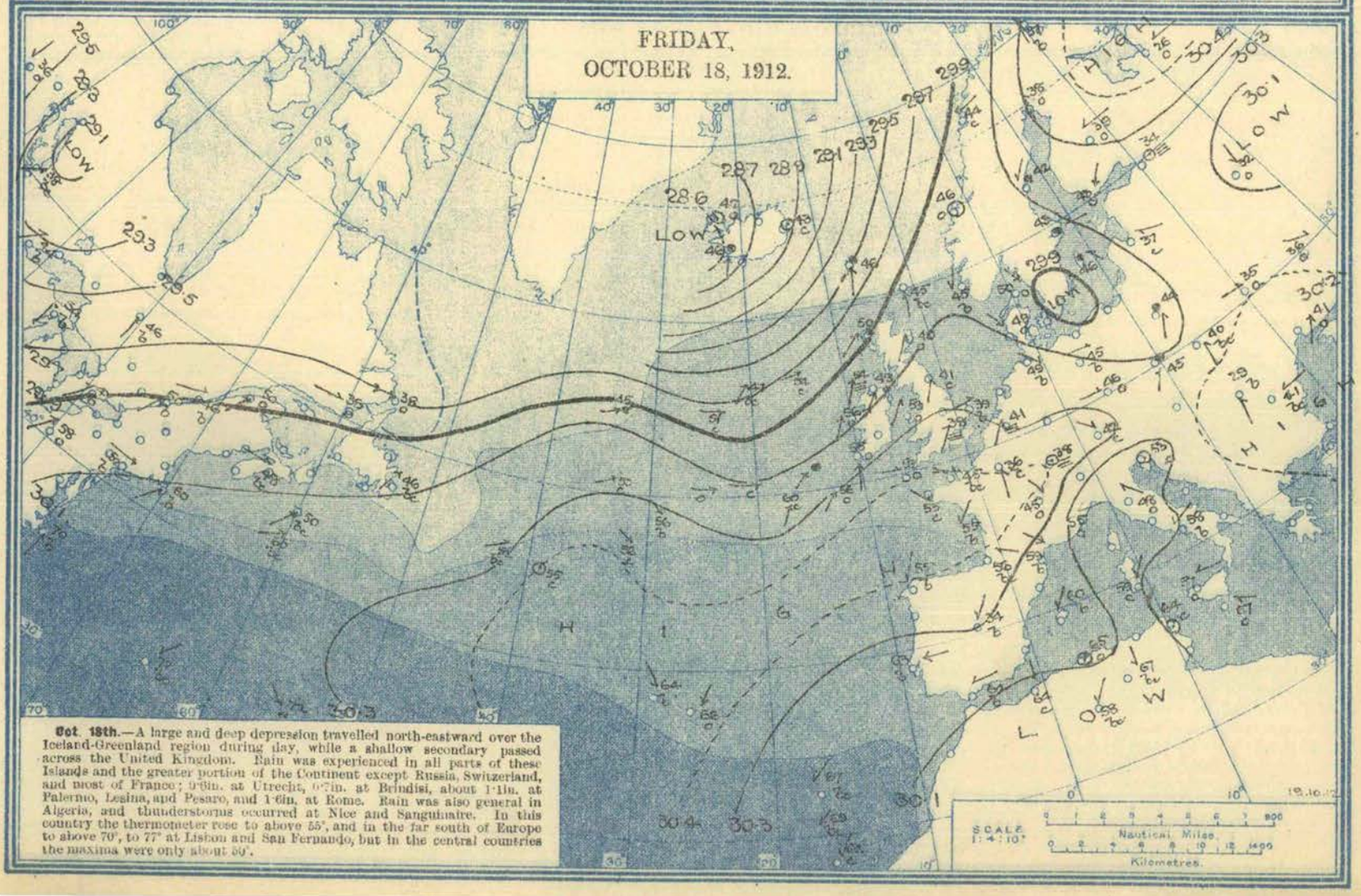
Oct. 15th.—The centre of a large depression travelled eastward across Iceland during day, and the South-Westerly wind increased on our north and north-west coasts, reaching gale force in the north of Ireland. Rain was experienced in most parts of Ireland and the west of Scotland—heavy amounts in places—and rain also fell in various parts of Scandinavia and central Europe, as well as in Algeria. Maximum temperature readings above 70° were recorded at many places in the far south, but at Naples the thermometer only touched 62°. In these Islands the readings were about 55°, in northern France about 60°, and in central Europe between 45° and 57°.



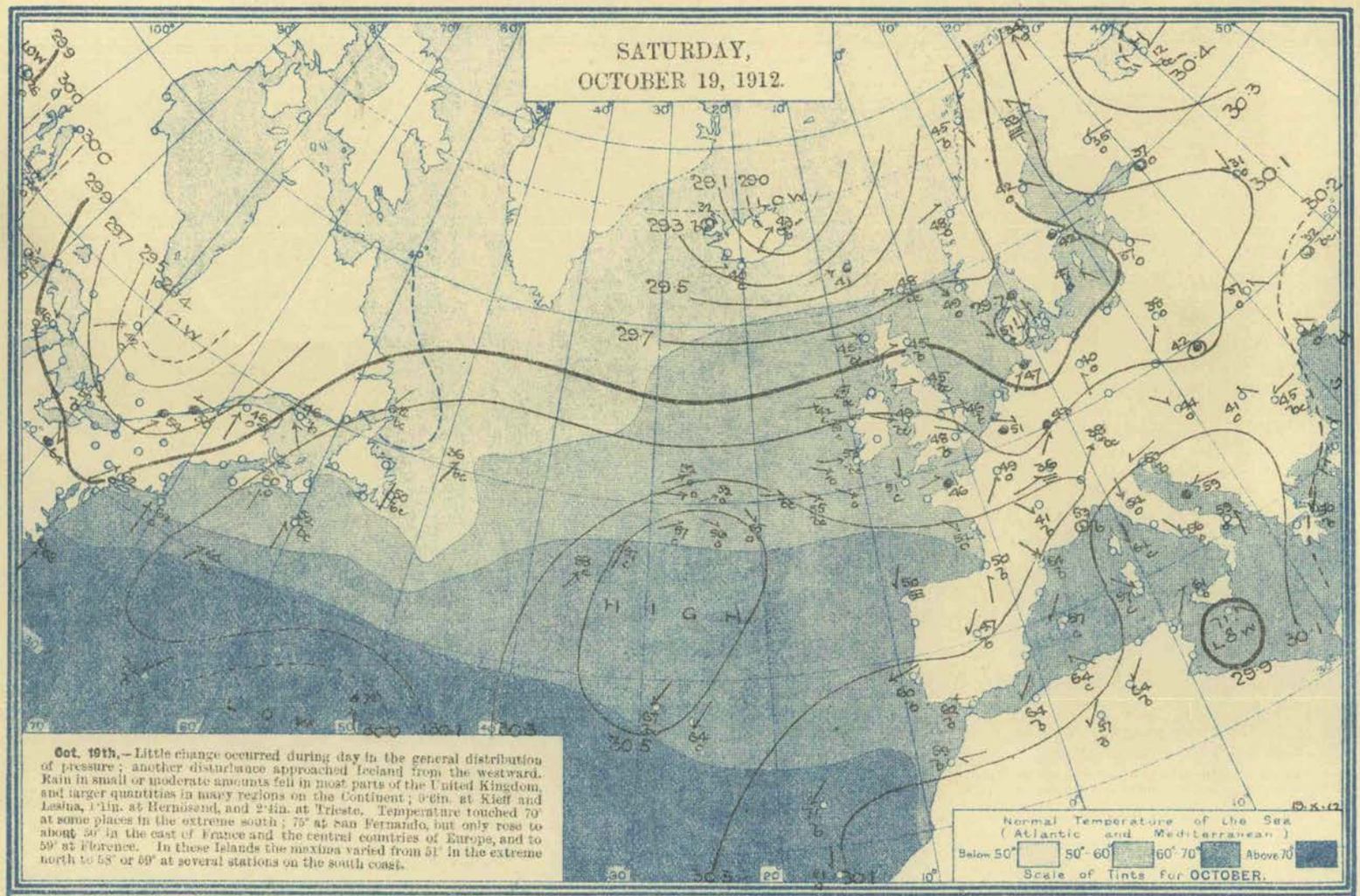
Oct. 16th.—The wind decreased in force during day in the west and north-west of these Islands, and veered to the Westward, but the Southerly gale at Skudesnaes increased in strength. Rain fell in the United Kingdom and the nearer regions of the Continent, and also in Norway, the largest measurements being 0·7in. at Stornoway and 1·6in. at Skudesnaes. At a few places in the extreme south of Europe the thermometer rose to 70° or a little higher, but only touched 63° at Brindisi. Maxima of about 60° were common in the northern half of France. In this country and the Netherlands the temperature rose to 55° or a few degrees above.



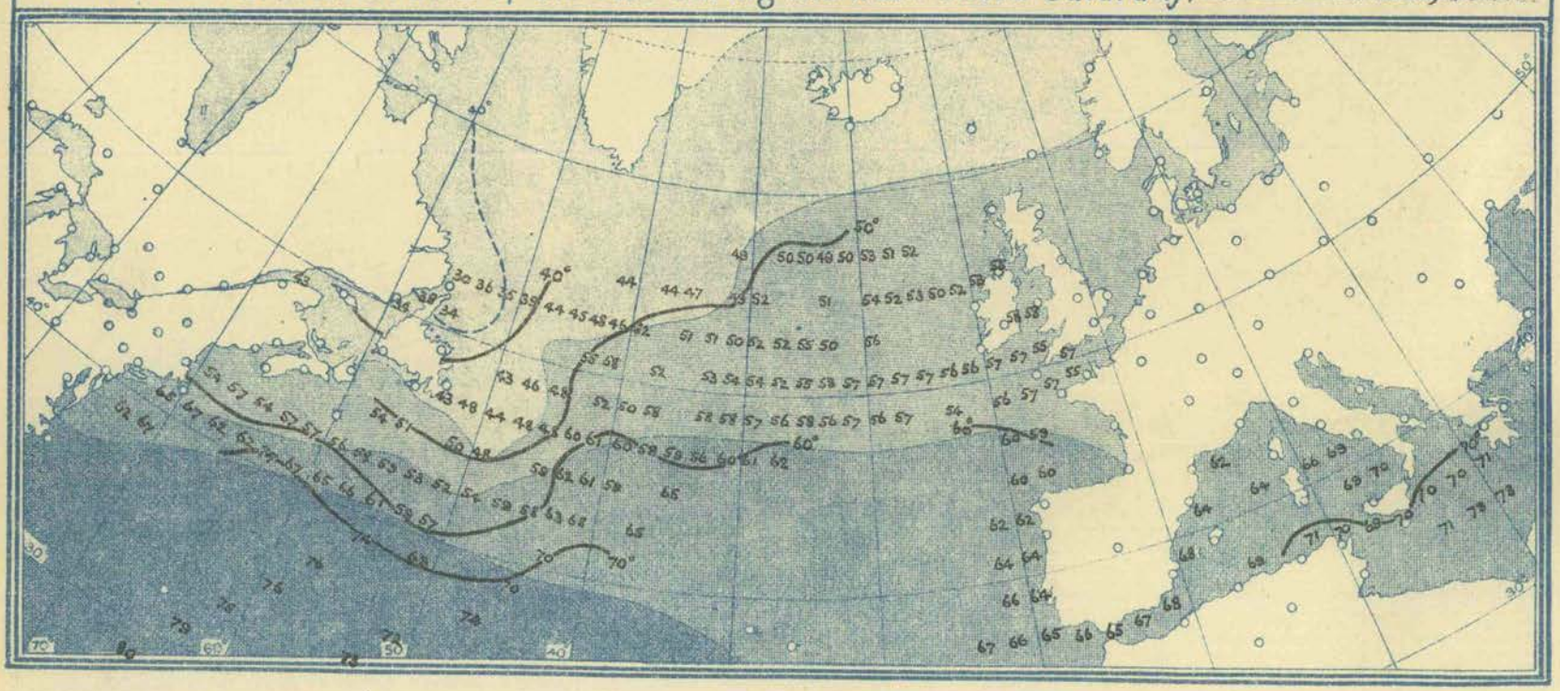
Oct. 17th.—The anticyclonic band extending from the Azores increased in intensity during day. Another depression approached Iceland, and a gale from South-East set in on the south-west coast of that Island, and strong winds or gales from the Southward were experienced on the Atlantic as far west as the 34th meridian. Slight rain fell in Ireland and Scotland, and larger quantities in northern and central Europe and the east of France. Over a large area in the Mediterranean region the thermometer rose to about 70°; to 75° at Perpignan. In these Islands the readings ranged mostly between 55° and 60°, but at Wick the thermometer did not touch 50°.



Oct. 18th.—A large and deep depression travelled north-eastward over the Iceland-Greenland region during day, while a shallow secondary passed across the United Kingdom. Rain was experienced in all parts of these Islands and the greater portion of the Continent except Russia, Switzerland, and most of France; 0·8in. at Utrecht, 0·7in. at Brindisi, about 1·1in. at Palermo, Lesina, and Pesaro, and 1·6in. at Rome. Rain was also general in Algeria, and thunderstorms occurred at Nice and Sanguinaire. In this country the thermometer rose to above 55°, and in the far south of Europe to above 70°, to 77° at Lisbon and San Fernando, but in the central countries the maxima were only about 50°.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 19TH OCTOBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); → = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ℞ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* No. 43. FORTY-THIRD WEEK, SUNDAY, OCTOBER 20TH, TO SATURDAY, OCTOBER 26TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. The general condition was unsettled, but some fair days were experienced in central and eastern England. Thunder and lightning occurred early in the week at some northern stations, and also at Guernsey and on the coast of Wales, and at Ventnor on the 25th. Fog was very prevalent over England during the latter half of the week, but in most localities it dispersed before midday.

Temperature was below the average, the deficit being nearly 5° in Scotland W. and 3° or more in most other districts. The highest of the maxima occurred generally either on the 20th or 26th, and ranged from 62° in England N.W., 61° in England E., and 60° in the Midland Counties to 54° in Scotland E. and W., and to 51° in Scotland N. At Nottingham and Worksop the maximum on the 25th, when fog was prevalent, was only 40°. The lowest of the minima, which were mostly recorded late in the week except in Scotland, ranged from 21° in Scotland E. (at Balmoral on the 21st) and 25° in Ireland S. to 28° in England S.E. and East, and in Scotland North and to 41° in the English Channel. The lowest grass readings were 16° at Crathes and Newton Rigg, 17° at Balmoral and Birmingham, 19° at West Linton and Dublin, and 20° at Burnley. The earth temperature was still below the normal at depths of 1 foot and 4 feet.

Mean Temperature of the Sea. On nearly all parts of the coast the sea temperature was below the average, and in most places it was lower than during the corresponding week of last year. The values were highest, above 54°, in the extreme south-west of England, and lowest, 47° or less, at Wick, Cromarty, and Burnmouth.

Rainfall was greatly in excess of the normal generally, but was less in Scotland N. On the 21st as much as 1·4 in. fell at Cally, Gatehouse, and on the 26th heavy falls were experienced over a large area in the north and north-west of England, and in Wales. The largest measurements were 1·4 in. at Southport, Lancaster, Burnley, and West Witton, 1·5 in. at Huddersfield, 1·6 in. at Bradford, 1·7 in. at Stonyhurst, and 2·4 in. at Bettws-y-Coed.

Bright Sunshine was less than the average except in Ireland S. In many parts of Great Britain the mean daily duration was less than 2 hours, but in Ireland S., where the percentage of the possible duration was 31, the daily mean was rather more than 3 hours. In Scotland E. the percentage of the possible duration was as low as 12.

Barometer and Wind. Cyclonic centres arriving from the Atlantic lay either over these Islands or in their neighbourhood throughout the period, and the barometric gradient was often steep. Strong winds and gales, mainly from between South and West were general over Ireland and the greater part of England, but in Scotland the wind was sometimes South-Easterly, and in Shetland Easterly. At Lerwick a gale which began at 3 a.m. on Tuesday continued until 2 p.m. on Friday.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 171.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Very deficient	Moderate	Moderate	Moderate	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Very heavy	Heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 8 weeks from Sept. 1st, 1912.	Warmth ...	0 * 5	1 * 4	1 * 4	0 * 5	2 * 4	0 * 6	1 * 5	1 * 6	0 * 5	2 * 4	1 * 3	0 * 6
	Rainfall ...	2 * 5	4 * 3	2 * 4	3 * 5	1 * 6	2 * 6	2 * 5	1 * 5	2 * 6	1 * 5	1 * 5	2 * 5
	Sunshine ...	3 * 5	2 * 5	2 * 2	2 * 3	1 * 2	3 * 2	1 * 3	4 * 3	4 * 2	3 * 2	1 * 3	4 * 3

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(26929—24.) Wt. 173—814. 450. 10/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.					Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*51*	*22nd*	*42*	*20, 21*	*49·3*	*44·1*	*46·6*	—	*32*	*0*	•	•	45·9	•	•	•	7	*1·05*	—	*0·9*	—	*10*	—	*Baltasound.*
a Islands .. *a Lerwick*	50	22nd	41	21st	48·8	43·7	46·1	+ 1·1	29	0	•	•	•	•	•	•	7	1·68	—	0·7	- 1·7	8	-18	Deerness.
a Stornoway	51	23rd	32	22, 23	48·9	37·4	43·0	- 2·1	26	13	•	•	•	•	•	•	5	0·93	- 0·40	3·4	+ 1·0	36	+10	Stornoway.
a Castlebay, Barra Isd. ..	*50*	*25, 26*	*37*	*21st*	*48·1*	*41·4*	*44·7*	- *2·5*	*21*	*2*							*6*	*1·95*	—	*2·3*	—	*24*	—	*Castlebay.*
a Wick	50	24th	28	21, 22	48·3	38·7	43·4	- 1·7	24	9	•	•	•	•	•	•	6	0·97	+ 0·25	•	•	•	•	
p Strathpeffer ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Strathpeffer.
b, Main- *p* Glencarron ..	49	23rd	32	21, 22	46·9	35·4	41·0	- 2·4	14	25	•	•	•	•	•	•	4	0·64	- 1·49	•	•	•	•	
land. *p* Fort Augustus..	49	23, 26	29	22nd	47·1	33·9	40·3	- 4·5	14	31	•	•	•	•	•	•	4	0·49	- 0·48	1·0	- 0·8	10	- 8	Fort Augustus.
p Fort William ..	50	26th	29	22nd	46·4	34·3	40·2	- 5·5	12	29	•	•	•	•	•	•	5	0·55	- 1·22	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. *b*	53	24th	29	21st	48·7	35·0	40·6	- 4·6	19	34	4	16	44·6	-3·1	48·2	-2·1	—	—	—	1·3	—	14	—	Crathes S.
a Nairn	49	23, 24	26	22nd	46·7	32·6	39·4	- 5·5	13	34	•	•	•	•	•	•	6	0·82	+ 0·05	*1·6*	—	*17*	—	*Gordon Castle.*
a Aberdeen ..	53	24th	29	21, 22	49·6	36·7	43·0	- 2·5	29	15	•	•	•	•	47·7	-1·9	7	0·62	+ 0·09	1·6	—	17	—	Nairn.
a Balmoral ..	54	22nd	21	21st	51·1	31·3	40·9	- 0·6	25	42	4	17	•	•	•	•	5	1·39	+ 0·72	1·2	- 1·7	13	-18	Aberdeen.
p Crieff	52	22nd	30	21st	46·4	33·7	39·9	- 5·4	12	31	•	•	•	•	•	•	5	2·02	+ 1·14	•	•	•	•	Balmoral.
a Leith	51	20th	30	26th	48·6	35·9	42·1	- 4·8	26	17	•	•	•	•	•	•	5	1·04	+ 0·12	1·0	—	10	—	Balruddery.
p West Linton ..	49	23rd	26	26th	44·9	29·1	36·8	- 6·8	8	46	6	19	•	•	•	•	6	1·72	+ 1·25	•	•	•	•	
p Marchmont ..	50	20th	30	21st	46·1	34·0	39·9	- 4·2	11	30	4	27	43·0	-3·5	•	•	6	1·31	—	*1·5*	—	*16*	—	*West Linton.*
																	6	1·63	+ 0·89	0·7	- 1·1	7	-11	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	53	20th	29	21st	50·0	34·3	41·9	- 3·9	22	31	3	25	41·7	-4·4	47·8	-1·5	6	1·92	+ 1·07	1·9	—	20	—	Cockle Park.
a Shields	57	20th	33	22, 24, 26	52·3	34·9	43·3	- 3·5	39	20	•	•	•	•	•	•	5	2·19	+ 1·51	•	•	•	•	*Newcastle.*
p Durham	52	20th	28	26th	48·3	34·4	41·1	- 4·4	18	29	3	26	•	•	•	•	6	1·11	+ 0·39	1·6	- 1·0	17	-11	Durham.
a, North .. *p* Rounton ..	51	20th	29	23rd	48·4	32·9	40·4	- 4·5	18	35	5	26	44·7	•	•	•	6	0·87	+ 0·14	•	•	•	•	Rounton.
a West Witton	*56*	*26th*	*27*	*26th*	*48·7*	*34·7*	*41·5*	—	*19*	*29*	4	26	44·7	•	48·3	•	*4*	*1·92*	—	•	•	•	•	*West Witton.*
p Scarborough ..	53	20th	33	26th	51·1	39·8	45·3	- 2·1	32	6	•	•	•	•	50·8†	•	5	1·68	+ 0·93	1·7	—	17	—	Scarborough.
p York	56	20th	33	23rd	49·6	38·7	44·0	- 2·5	28	9	•	•	47·6	-2·9	51·1	-1·8	3	1·02	+ 0·44	1·1	- 1·3	11	-13	York.
a Spurn Head ..	55	20, 26	37	26th	51·6	39·9	45·6	- 2·8	34	6	3	26	45·1	-3·8	50·1	-2·6	3	0·62	+ 0·09	*1·1*	—	*11*	—	*Hull.*
b South .. *a* Lincoln	58	26th	31	25, 26	50·1	35·6	42·6	- 4·0	51	18	•	•	44·3	-5·4	49·9	-3·0	4	0·69	+ 0·14	•	•	•	•	Lincoln.
a Fulbeck	55	20th	27	26th	49·7	34·4	41·8	- 4·5	*24*	30	5	22	47·3	-2·2	51·2	-2·2	5	0·71	+ 0·16	2·4	—	24	—	Rauceby.
											•	•	•	•	•	•	—	—	—	2·5	—	25	—	Skegness.
											0	31	48·1	-3·3	52·2	-2·6	—	—	—	*2·0*	—	*20*	—	*Lowestoft.*
3. ENGLAND, E.																	7	0·55	—	1·8	—	18	—	Cromer.
p Cromer	56	26th	34	25, 26	52·3	38·6	45·3	- 2·0	37	10	•	•	•	•	•	•								
p Hillington ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Hillington.
a, North .. *a* Yarmouth ..	53	20, 21	33	26th	52·3	39·7	45·8	- 2·2	36	6	•	•	47·0	-4·1	52·0	-3·1	6	0·88	+ 0·20	2·2	—	22	—	Yarmouth.
a Norwich ..	58	26th	30	26th	51·3	36·3	43·6	- 2·8	35	16	4	26	46·3	•	•	•	5	0·65	—	*1·9*	—	*19*	—	*Norwich.*
p Geldeston ..	56	20th	28	26th	52·1	35·4	43·5	- 4·2	38	18	•	•	•	•	•	•	3	0·63	- 0·02	2·6	- 0·5	26	- 5	Geldeston.
p Cambridge	56	20th	28	26th	51·9	35·0	43·2	- 3·9	38	20	3	26	47·3	-3·4	51·9	-2·7	4	1·00	+ 0·47	2·2	- 0·9	22	- 9	Cambridge.
a Felixstowe	*56*	*20th*	*31*	*26th*	*52·7*	*39·6*	*46·0*	- *2·9*	*38*	*7*	•	•	•	•	•	•	*3*	*0·67*	—	*3·8*	—	*38*	—	*Felixstowe.*
a Clacton-on-Sea ..	57	20th	35	25, 26	52·0	39·7	45·7	- 3·2	36	6	0	31	49·1	-4·4	53·0	-2·3	3	0·54	—	2·8	—	28	—	Clacton.
b, South .. *a* Rothamsted ..	61	23rd	29	25th	53·6	35·3	44·2	- 1·9	44	19	•	•	•	•	•	•	5	0·87	+ 0·20	2·5	- 0·6	25	- 6	Rothamsted.
a Shoeburyness ..	*58*	*26th*	*30*	*26th*	*52·3*	*39·0*	*45·6*	- *3·7*	*37*	*8*	3	27	50·4	-2·8	•	•	*6*	*0·85*	+ *0·39*	*2·5*	—	*25*	—	*Southend.*
p Tottenham ..	57	20, 26	34	26th	51·7	40·0	45·7	- 2·0	34	6	2	30	•	•	52·5	-3·8	4	0·89	—	1·1	—	11	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	53	20th	30	26th	47·4	35·6	41·3	- 4·1	15	25	2	27	44·8	-4·6	49·7	-2·2	—	—	—	*0·6*	—	*6*	—	*Huddersfield.*
a Bawtry	57	20th	30	21, 26	52·6	34·0	43·0	- 3·0	41	22	4	27	45·7	-3·2	48·6	-1·7	3	1·74	+ 1·00	1·0	—	10	—	Harrogate.
p Buxton	*51*	*20th*	*26*	*25th*	*47·1*	*33·0*	*39·8*	- *3·9*	*14*	*33*	4	25	45·5	•	49·4	•	4	0·95	+ 0·43	1·1	- 1·3	11	-14	Worksop.
a East .. *a* Nottingham ..	58	26th	28	26th	50·0	34·4	42·0	- 4·7	22	21	4	29	43·9	-4·9	49·7	-3·4	*3*	*2·42*	+ *1·19*	*1·5*	—	*15*	—	*Buxton.*
p Birmingham, Edgbsn.	55	20th	32	25th	49·0	36·1	42·4	- 4·1	28	17	5	17	45·5	-3·0	49·9	-1·7	3	1·13	+ 0·60	1·6	—	16	—	Nottingham.
a Raunds	57	20, 26	27	26th	52·7	34·3	43·2	- 3·3	41	22	4	27	47·8	•	52·5	•	4	1·16	+ 0·56	1·7	—	17	—	Birmingham.
a Oxford	58	26th	31	26th	50·4	36·0	43·0	- 4·2	32	17	1	27	•	•	•	•	4	0·93	—	•	•	•	•	Raunds.
											3	27	•	•	•	•	5	1·12	+ 0·52	1·5	- 1·4	15	-14	Oxford.
											3	27	46·1	-3·1	50·1	-2·0	—	—	—	1·3	—	13	—	Sheffield.
a Cheadle	55	26th	29	25th	48·0	34·4	41·0	- 4·2	17	29	6	23	•	•	•	•	3	1·86	+ 1·16	•	•	•	•	Cheadle.
b, West .. *p* Shrewsbury ..	58	20, 26	26	25th	52·4	32·6	42·2	- 4·7	41	26	3	27	•	•	•	•	4	1·24	—	•	•	•	•	Shrewsbury.
a Hereford	56	26th	27	25th	49·6	35·0	42·1	- 4·9	30	20	2	25	•	•	•	•	6	1·15	+ 0·56	•	•	•	•	Hereford.
a Cirencester	56	26th	29	25th	48·9	33·1	40·8	- 4·9	19	35	3	30	46·8	•	50·5	•	6	1·42	+ 0·74	1·9	-1·9	10	-19	Cirencester.
a Bath	60	26th	30	25th	53·9	35·1	44·2	- 4·0	44	19	•	•	48·4	-4·7	53·6	-2·7	6	1·37	+ 0·70	2·3	—	23	—	Bath.
5. ENGLAND, S.E.																								
p Kew	57	20th	32	26th	51·4	38·7	44·9	- 2·6	34	9	1	27	47·8	-3·6	52·4	-2·1	—	—	—	•	•	•	•	Canterbury.
a Marlborough ..	57	26th	28	26th	50·6	33·4	41·8	- 3·8	24	35	5	26	47·6	-3·5	51·6	-2·8	5	0·89	+ 0·29	2·2	- 0·5	22	- 5	Kew.
a Margate	58	20th	39	22, 23	54·3	41·3	47·6	- 1·8	42	2	5	24	•	•	51·4	•	7	1·11	+ 0·34	2·1	- 0·7	21	- 7	Marlborough.
a Wisley, Surrey ..	58	26th	30	26th	51·7	35·7	43·5	- 4·8	37	18	•	•	48·3	-3·4	51·3	-3·2	5	1·13	+ 0·50	2·0	- 1·1	20	-11	Margate.
a Swarraton	56	26th	29	25, 26	50·3	34·9	42·4	- 4·1	33	20	4	25	47·3	-3·4	51·3	-3·2	5	0·88	—	2·6	—	26	—	Wisley
a Tunbridge Wells ..	56	20, 26	33	25th	51·9	36·9	44·2	- 3·2	37	14	1	30	48·7	-4·3	53·3	-2·8	7	1·24	+ 0·41	3·3	—	33	—	Worthing.
a Dungeness	57	20, 26	37	23, 26	53·1	39·9	46·3	- 3·9	39	6	2	30	47·6	-3·7	•	•	4	1·14	+ 0·30	3·0	- 0·1	30	- 1	Tunbridge Wells.
p Hastings.. ..	57	20th	40	21, 23, 25	53·1	41·9	47·3	- 2·6	38	0	•	•	•	•	•	•	5	1·61	+ 0·92	3·0	—	30	—	Littlestone.
p Southampton ..	58	20th	39	25th	52·7	37·1	44·7	- 4·6	39	14	0	34	49·2	•	53·3	•	6	1·81	+ 0·28	*2·9*	- *0·6*	*29*	- *6*	*Hastings.*
a Ventnor	57	20, 26	41	22nd	53·4	42·9	48·0	- 3·1	42	0	3	27	•	•	•	•	6	1·14	+ 0·32	1·5	- 1·7	15	-17	Southampton
											•	•	•	•	•	•	6	1·18	+ 0·64	1·9	- 1·6	19	-16	Ventnor.
											2	28	48·4	-4·1	53·8	-2·3	—	—	—	*2·1*	—	*21*	—	*Portsmouth.*
											•	•	50·4	•	54·0	•	—	—	—	2·5	- 0·9	25	- 9	Eastbourne.
											•	•	48·3	•	51·0	•	—	—	—	*2·6*	—	*26*	—	*Bournemouth.*
LONDON.											0	33	•	•	52·8	•	—	—	—	*2·8*	- *0·7*	*28*	- *7*	*Brighton.*
a Westminster	*59*	*26th*	*34*	*26th*	*53·1*	*39·9*	*46·3*	- *1·1*	*39*	*6*	0	30	•	•	•	•	*5*	*0·83*	+ *0·24*	*1·2*	- *0·7*	*12*	- *7*	*Westminster.*
a Greenwich ..	*59*	*20th*	*33*	*26th*	*53·1*	*37·7*	*45·2*	- *2·4*	*40*	*12*	5	25	•	•	•	•	*5*	*0·88*	+ *0·32*	*2·3*	- *0·3*	*23*	- *3*	*Greenwich.*
a Hampstead ..	*56*	*26th*	*33*	*25th*	*50·3*	*33·7*	*44·3*	—	*30*	*9*	6	22	•	•	•	•	*5*	*0·87*	—	*1·9*	—	*19*	—	*Hampstead.*
a Camden Square ..	*59*	*20th*	*34*	*26th*	*52·7*	*38·4*	*45·3*	—	*38*	*10*	1	28	•	•	•	•	*5*	*0·94*	—	*1·6*	—	*16*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. *b*	50	22nd	30	22nd	45·7	36·6	41·0	- 5·5	10	20	•	•	•	•	•	•	6	1·07	- 0·09	•	•	•	•	
p Glasgow	48	20, 23	32	22nd	46·0	36·4	41·1	- 4·2	11	22	4	22	•	•	•	•	5	0·72	- 0·46	0·5	- 1·4	5	-15	Glasgow.
p Rothesay .. *b*	50	20th	32	20, 22	47·0	36·1	41·4	- 5·1	14	23	•	•	•	•	49·2	-1·4	7	1·09	+ 0·11	•	•	•	•	
a Kilmarnock ..	53	26th	26	22nd	46·4	34·1	40·1	- 5·7	12	30	•	•	•	•	•	•	6	1·23	—	*0·1*	—	*1*	—	*Kilmarnock.*
a Colmonell ..	54	26th	28	25th	49·3	34·0	41·4	- 4·6	20	31	5	27	•	•	•	•	6	1·17	+ 0·09	•	•	•	•	
p Dumfries ..	50	20, 22, 23	31	26th	47·7	34·4	40·9	- 5·2	16	30	6	24	44·7	•	50·0	•	5	1·04	+ 0·19	*1·1*	—	*11*	—	*Dumfries.*
p Cally, Gatehouse	53	20th	30	21, 22, 26	49·1	32·4	40·5	- 5·4	20	37	•	•	•	•	•	•	6	2·15	+ 1·01	•	•	•	•	
b I. OF MAN.																								
p Douglas	54	26th	36	25th	49·7	38·0	43·7	- 3·8	29	11	1	30	•	•	•	•	7	2·05	+ 0·99	2·1	- 0·9	21	- 9	Douglas.
											5	20	44·6	-3·5	49·1	-2·2	—	—	—	*0·9*	—	*9*	—	*Burnley.*
											3	28	•	•	•	•	—	—	—	2·4	—	24	—	Hoylake.
7. *a*, ENGLAND, N.W.											5	25	46·1	•	50·5	•	5	1·10	+ 0·17	1·7	—	18	—	Aspatria.
p Aspatria	52	23rd	30	22nd	47·6	34·1	40·7	- 5·2	16	31	7	16	45·3	-3·8	49·0	-2·1	5	1·29	+ 0·42	2·0	- 0·5	21	- 5	Newton Rigg.
p Newton Rigg ..	50	20th	26	26th	47·1	32·0	39·3	- 5·3	14	37	3	25	•	•	•	•	5	2·48	+ 1·41	1·0	- 1·5	10	-15	Stonyhurst.
p Stonyhurst	54	26th	31	26th	48·3	35·9	41·9	- 3·7	18	24	5	22	47·8	•	51·3	•	5	2·87	+ 2·00	1·3	- 1·3	13	-14	Blackpool.
p Blackpool	53	20th	31	25th	49·7	37·6	43·5	- 4·0	29	12	•	•	•	•	•	•	*3*	*1·61*	—	*0·9*	—	*9*	—	*Whit. Park.*
p Manchester (Whit. Pk.)	*54*	*20th*	*31*	*25th*	*50·3*	*37·0*	*43·5*	—	*32*	*14*	4	21	•	•	•	•	5	1·64	+ 0·89	*1·9*	—	*19*	—	*Liverpool.*
a Liverpool (Bidston) ..	56	26th	35	25, 26	50·1	38·4	44·1	- 4·0	30	10	•	•	•	•	•	•	5	1·65	+ 0·98	*1·4*	- *1·1*	*14*	-*11*	*Southport.*
a Hawarden Bridge ..	62	26th	30	25th	52·0	37·1	44·3	- 4·0	37	14	4	24	44·4	-4·2	50·3	-2·3	5	1·65	+ 0·98	*1·4*	- *1·1*	*14*	-*11*	*Southport.*
											3	26	45·5	-4·2	51·4	-2·6	—	—	—	*0·5*	—	*5*	—	*Manchester City.*
[illegible]dno	58	26th	36	25, 26	50·0	38·9	44·3	- 5·2	29	9	•	•	•	•	•	•	3	1·81	+ 0·97	2·2	- 0·3	22	- 4	Llandudno.
[illegible]	56	26th	39	25th	51·0	42·0	46·4	- 3·1	31	9	•	•	•	•	•	•	7	2·88	+ 1·98	2·4	—	24	—	Aberdovey.
[illegible]	56	20th	30	26th	51·7	35·7	43·5	- 5·1	37	18	2	30	45·9	-2·5	49·9	-1·8	5	3·70	—	2·4	—	24	—	Bettws-y-Coed.

[illegible]es see opposite page.

† At 3 feet

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.																**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In. *	In. *	Hr. 2·5	Hr. —	% 25	% —	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	57	26th	27	25th	48·4	33·9	42·9	- 4·6	18	31	4	25	45·1	-4·8	50·0	-2·8	7	2·46	—	2·0	—	20	—	Llangammarch
a Pembroke	59	26th	39	25th	53·0	43·1	47·9	- 2·5	41	0	*	*	*	*	*	*	7	1·65	+ 0·76	1·6	- 1·4	16	-14	Pembroke.[Wells
p Cardiff	57	20th	34	25th	50·7	37·9	44·1	- 3·1	32	11	3	26	47·0	-3·7	51·6	-2·3	7	2·06	+ 1·02	*1·4*	—	*14*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	59	26th	33	25th	51·7	38·9	45·1	- 2·6	35	9	3	29	*	*	*	*	7	1·46	+ 0·63	*1·5*	—	*15*	—	*Clifton.*
a Shaftesbury	55	20, 26	32	25th	49·1	36·3	42·5	- 4·8	27	16	*	*	47·7	*	52·8	*	7	1·21	+ 0·40	*	*	*	*	Shaftesbury.
a Arlington	57	26th	33	25th	50·6	38·3	44·3	- 3·1	32	10	*	*	50·5	*	*	*	7	2·36	+ 1·38	2·9	- 0·4	29	- 4	Newquay.
a Cullompton	57	20, 26	29	25th	53·3	35·7	44·2	- 3·8	42	18	3	28	48·7	*	*	*	7	1·64	+ 0·78	2·0	- 0·8	20	- 8	Cullompton.
a Portland	58	26th	42	22, 23	53·4	45·4	49·3	- 1·7	51	0	*	*	*	*	*	*	7	1·12	—	*2·4*	—	*24*	—	*Weymouth.*
p Plymouth	58	26th	33	25th	54·0	41·0	47·3	- 3·0	41	3	2	26	49·7	-3·2	*	*	7	1·15	+ 0·29	4·0	+ 0·8	40	+ 8	Plymouth.
p Falmouth	57	26th	42	21st	52·4	44·6	48·4	- 2·3	45	0	*	*	*	*	*	*	7	1·98	+ 0·88	3·6	0·0	36	0	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	52	23rd	37	22, 26	49·6	39·4	44·4	- 3·5	28	7	*	*	*	*	*	*	6	1·42	+ 0·69	*	*	*	*	* *
a Blacksod Point ..	54	20th	38	24th	51·0	41·7	46·2	- 2·9	31	1	*	*	*	*	*	*	6	1·29	+ 0·11	*	*	*	*	* *
p Markree Castle ..	53	23rd	28	24th	49·9	33·1	41·3	- 5·0	22	35	4	22	48·4	*	52·0	*	6	1·62	+ 0·67	2·5	- 0·1	25	- 1	Markree Castle.
a Birr Castle	55	26th	28	25, 26	51·7	34·7	43·0	- 3·1	38	20	*	*	*	*	*	*	5	0·68	+ 0·03	*3·5*	*+ 0·6*	*35*	+ 6	*Birr Castle.*
b, East .. *p* Armagh	52	23rd	27	26th	48·4	33·2	40·6	- 5·7	18	34	5	26	47·1	-3·1	51·3	-1·6	6	0·45	- 0·18	2·6	- 0·1	26	- 1	Armagh.
a Donaghadee	53	26th	35	25th	49·9	38·6	44·1	- 3·7	29	10	*	*	*	*	*	*	5	1·18	+ 0·52	*	*	*	*	* *
											3	25	47·3	-3·5	51·3	-1·9	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											5	19	*	*	*	*	—	—	—	3·4	+ 0·2	34	+ 2	Phœnix Park.
a, East .. *p* Dublin, City	54	26th	32	25th	50·0	37·0	43·3	- 5·0	30	14	1	29	*	*	*	*	5	0·83	+ 0·23	*	*	*	*	Dublin City.
a Kilkenny	56	26th	27	25th	51·7	35·0	43·1	- 3·8	37	20	*	*	*	*	*	*	6	1·19	+ 0·52	*	*	*	*	* *
a Waterford	57	20th	28	25th	52·0	37·1	44·3	- 3·9	37	14	*	*	*	*	*	*	6	1·42	+ 0·59	*	*	*	*	* *
b, West .. *a* Birr Castle	55	26th	28	25, 26	51·7	34·7	43·0	- 3·1	38	20	*	*	*	*	*	*	5	0·68	+ 0·03	3·5	+ 0·6	35	+ 6	Birr Castle.
a Foynes	58	26th	31	25th	52·1	40·9	46·3	- 2·1	35	3	*	*	*	*	*	*	7	1·44	+ 0·59	*	*	*	*	* *
a Cahir	56	26th	25	25th	52·4	35·3	43·6	- 4·4	39	19	*	*	*	*	*	*	5	1·24	—	*	*	*	*	* *
a Killarney	58	26th	35	25th	54·0	40·8	47·2	- 1·3	41	3	*	*	*	*	*	*	7	1·43	+ 0·25	*	*	*	*	* *
a Valencia	57	26th	39	25th	53·4	43·4	48·3	- 2·1	44	0	*	*	*	*	*	*	7	1·97	+ 0·74	2·0	- 1·1	20	-11	Valencia.
a Roche's Point	56	20, 26	36	25th	53·4	40·1	46·6	- 3·4	40	5	*	*	*	*	*	*	7	1·42	+ 0·50	3·3	—	33	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	58	26th	42	21st	54·6	45·7	50·0	- 2·6	56	0	*	*	*	*	*	*	7	1·17	+ 0·37	3·0	- 0·5	30	- 4	Scilly.
a Jersey, St. Aubins ..	59	26th	41	22nd	54·6	45·6	50·0	- 2·6	56	0	*	*	*	*	*	*	7	2·45	+ 1·42	1·5	- 2·2	15	-22	St. Heliers.
a Guernsey (Villa Carey)	58	26th	43	21st	53·4	45·4	49·3	- 3·2	51	0	0	35	51·9	-2·8	55·5	-2·1	7	2·61	+ 1·56	2·7	- 0·6	27	- 5	Guernsey.*

Additional Sunshine Means:—*Bognor, 2·5 hrs. 25 °/₀; Ramsgate, 2·8 hrs. 28 °/₀; Rhyl, 2·6 hrs. 26 °/₀; Salcombe, 4·2 hrs. 42 °/₀; Tenby, 1·7 hrs. (−1·4) 17 °/₀ (− 14 °/₀); Torquay, 3·7 hrs. (+0·5) 37 °/₀ (+5 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, October 26th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	49	48	48·6	-1·0	SCOTLAND, W. ..	Lamlash	52	47	49·6	-1·9
	Kirkwall	49	48	48·3	+0·3		Ballantrae	51	48	49·3	-0·9
	Wick	48	47	47·2	-1·1	ENGLAND, N.W. ..	Port Erin	54	51	52·4	-0·7
	Cromarty	49	45	47·3	-2·6	ENGLAND, S.W. ..	Newquay	53	52	52·2	-1·3
SCOTLAND, E. ..	Pennan Bay	—	—	—	—		Scilly	55	53	54·4	—
	Aberdeen, Cove Bay	51	50	50·1	+0·2		Plymouth‡	56	54	54·8	-1·1
ENGLAND, N.E. ..	Burnmouth, Berwick	47	46	46·5	-2·9		Salcombe	56	53	54·4	-1·5
	Scarborough	51	48	49·2	-1·7	IRELAND, N.W. ..	Sheephaven	52	47	49·5	-3·2
ENGLAND, E. ..	Shipwash Lightship	54	52	53·1	-2·4		Teelin	52	45	48·7	-3·3
	Margate‡	53	52	52·5	-2·3	IRELAND, S.W. ..	Cleggan	54	51	52·5	+1·7
ENGLAND, S.E. ..	Eastbourne‡	54	52	52·6	-2·6	IRELAND, E.	Seafield	54	49	52·2	-0·7
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked Ŝ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-THIRD WEEK—October 20th to October 26th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	51	28	47·7	37·2	42·3	− 2·6	22	− 8	13	+ 2	5	0	0·88	−0·31	1·7	−0·6	18	− 7
Eastern.																		
1. SCOTLAND, EAST ...	54	21	47·8	33·3	40·3	− 3·6	16	− 16	33	+19	6	+ 2	1·32	+0·64	1·2	−1·4	12	−15
2. ENGLAND, N.E.	58	27	50·1	36·1	42·9	− 3·5	31	− 7	17	+11	5	+ 1	1·20	+0·47	1·9	−0·8	19	− 8
3. ENGLAND, EAST ...	61	28	52·2	37·5	44·6	− 2·5	37	− 7	13	+ 6	5	+ 1	0·75	+0·13	2·2	−0·8	22	− 8
4. MIDLAND COUNTIES ...	60	26	50·4	34·7	42·4	− 3·7	33	− 7	20	+11	4	0	1·28	+0·63	1·5	−1·1	15	−11
5. ENGLAND, S.E.	58	28	52·5	38·3	45·1	− 3·5	37	− 15	10	+ 5	6	+ 2	1·22	+0·45	2·4	−0·6	24	− 6
Western.																		
6. SCOTLAND, WEST ...	54	26	47·6	35·3	41·3	− 4·8	16	− 22	26	+18	6	+ 2	1·32	+0·21	1·3	−1·2	13	−12
7. ENGLAND, N.W.	62	26	49·7	36·9	43·1	− 4·1	29	− 14	14	+ 9	5	+ 1	2·16	+1·30	1·9	−0·6	20	− 6
8. ENGLAND, S.W.	59	27	51·7	39·5	45·4	− 3·4	34	− 18	7	+ 3	7	+ 3	1·76	+0·73	2·7	−0·3	27	− 3
9. IRELAND, NORTH ...	55	27	50·1	36·8	43·3	− 3·3	31	− 9	15	+ 9	6	+ 1	1·11	+0·26	2·6	−0·2	26	− 3
10. IRELAND, SOUTH ...	59	25	52·3	38·3	45·1	− 3·0	37	− 12	10	+ 5	6	+ 2	1·30	+0·41	3·1	+0·1	31	+ 1
11. ENGLISH CHANNEL ...	59	41	54·2	45·6	49·8	− 2·5	55	− 17	0	0	7	+ 2	2·08	+1·16	2·4	−1·1	24	−10

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 8 Weeks, September 1st to October 26th, 1912.

0. SCOTLAND, NORTH ...	66	28	*	*	*	*	345	− 81	14	−18	33	− 6	7·14	−1·99	3·0	+0·1	26	0
Eastern.																		
1. SCOTLAND, EAST ...	72	21	*	*	*	*	370	− 87	62	+22	25	− 7	5·43	+0·42	2·9	−0·5	25	− 5
2. ENGLAND, N.E.	70	27	*	*	*	*	438	−100	22	+ 6	23	− 6	3·46	−1·01	3·6	−0·2	31	− 2
3. ENGLAND, EAST ...	69	27	*	*	*	*	499	−116	36	+16	22	− 6	3·64	−0·66	4·2	0·0	36	0
4. MIDLAND COUNTIES ...	70	25	*	*	*	*	462	− 99	58	+31	15	−13	2·75	−1·74	3·5	−0·2	30	− 2
5. ENGLAND, S.E.	68	24	*	*	*	*	505	−175	27	+14	18	− 9	4·58	−0·44	4·6	+0·3	40	+ 3
Western.																		
6. SCOTLAND, WEST ...	67	22	*	*	*	*	416	− 89	31	+ 9	26	− 6	6·52	−1·71	3·5	0·0	30	0
7. ENGLAND, N.W.	66	26	*	*	*	*	455	−117	18	+ 7	22	− 8	4·80	−1·53	3·7	+0·2	32	+ 1
8. ENGLAND, S.W.	72	21	*	*	*	*	502	−141	13	+ 4	19	−12	4·10	−2·83	4·3	+0·2	37	+ 2
9. IRELAND, NORTH ...	67	26	*	*	*	*	471	− 58	15	+ 1	24	−12	3·28	−3·13	3·3	0·0	29	0
10. IRELAND, SOUTH ...	72	25	*	*	*	*	537	− 61	13	+ 1	25	− 6	3·28	−2·80	3·8	−0·1	33	− 1
11. ENGLISH CHANNEL ...	68	37	*	*	*	*	690	−118	0	0	22	−12	5·16	−0·80	5·2	+0·2	44	+ 1

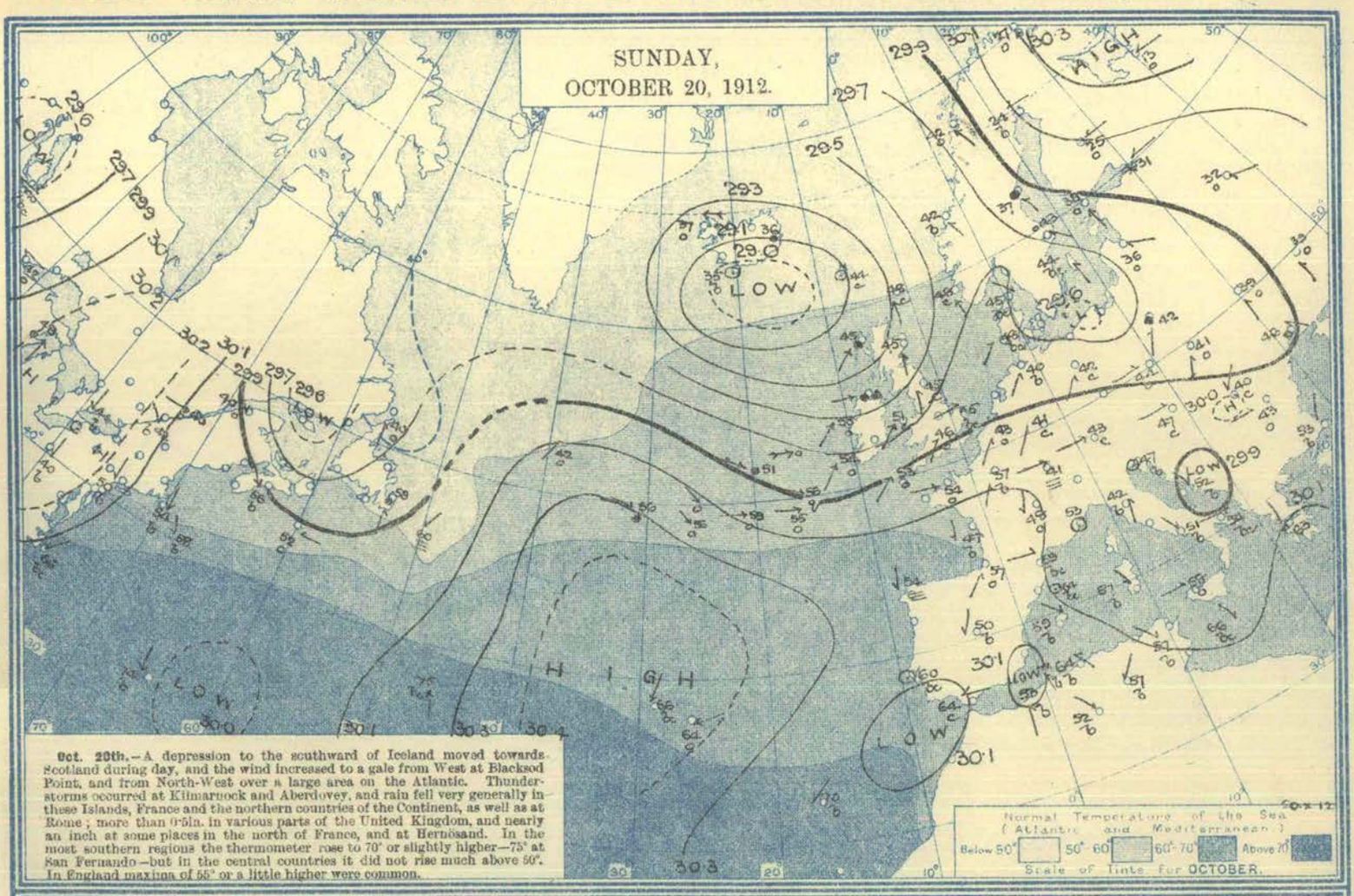
THE YEAR.—Aggregates, &c., for the Period of 43 Weeks, December 31st, 1911, to October 26th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1831	−149	441	−148	193	− 6	37·79	− 2·75	3·2	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2039	−188	581	− 79	172	+ 7	26·17	+ 1·59	3·1	−1·0	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2429	− 59	395	− 96	167	+18	25·98	+ 6·05	3·5	−1·0	27	− 8
3. ENGLAND, EAST ...	91	14	*	*	*	*	2933	+ 58	310	−231	156	+12	24·11	+ 4·90	4·4	−0·5	34	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2686	−111	431	−129	151	+ 8	28·16	+ 6·91	3·5	−0·8	27	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	2950	−149	245	−149	147	+10	25·94	+ 4·81	4·5	−0·4	35	− 3
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2279	−129	360	− 87	174	+ 2	35·90	− 1·18	3·6	−0·6	28	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2507	−132	316	− 81	167	+ 9	30·89	+ 3·35	3·8	−0·5	29	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2746	−189	202	−108	174	+18	37·12	+ 7·54	3·9	−0·9	31	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2321	−195	252	−107	169	−19	29·76	− 0·51	3·5	−0·4	27	− 3
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2695	−189	180	− 91	196	+30	34·22	+ 2·96	3·6	−0·8	28	− 6
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3397	+ 3	44	− 65	175	+ 8	32·87	+ 8·23	5·0	−0·8	39	− 6

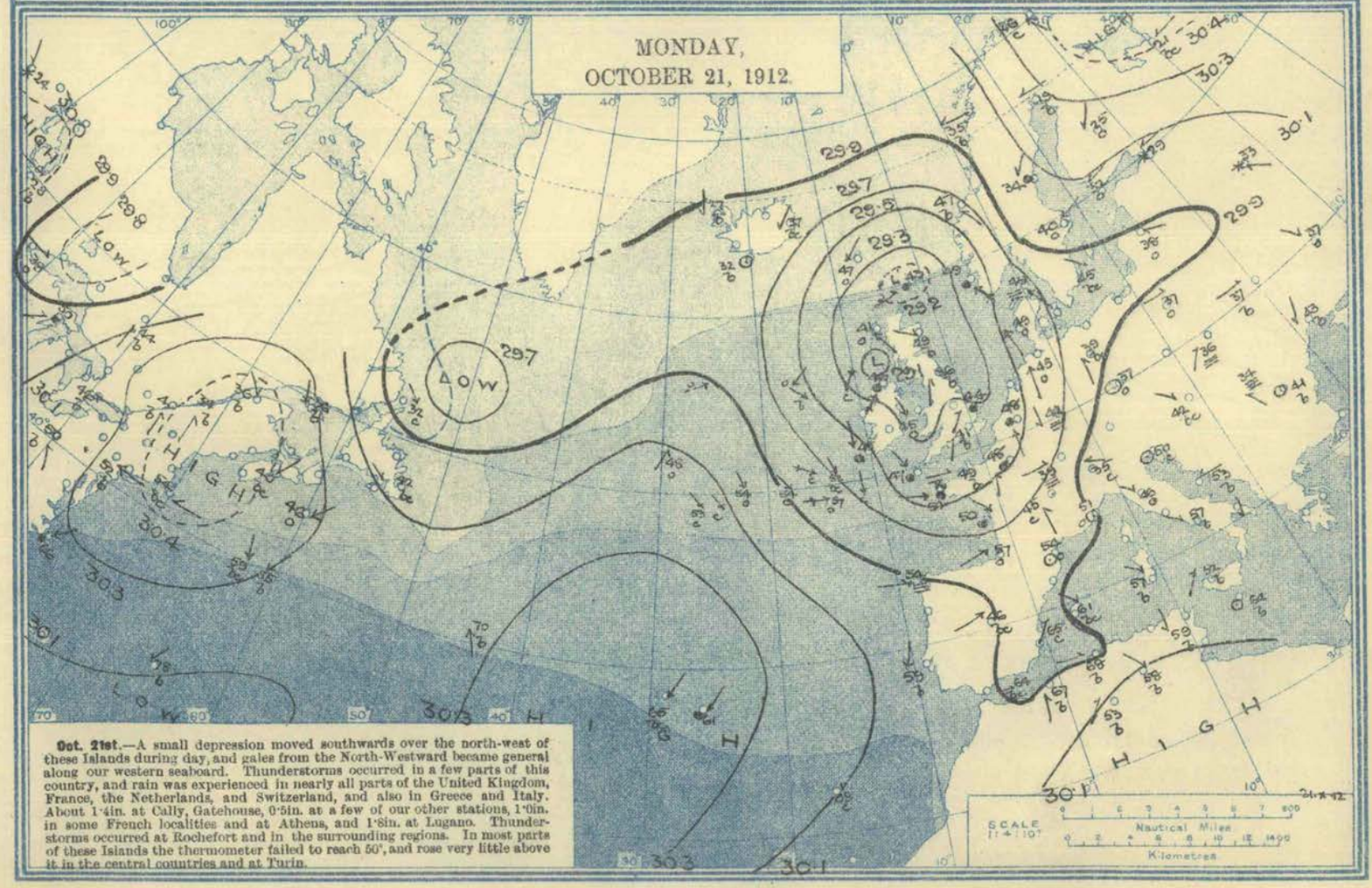
M.O., October 30, 1912.

NOTES ON TABLE IV.

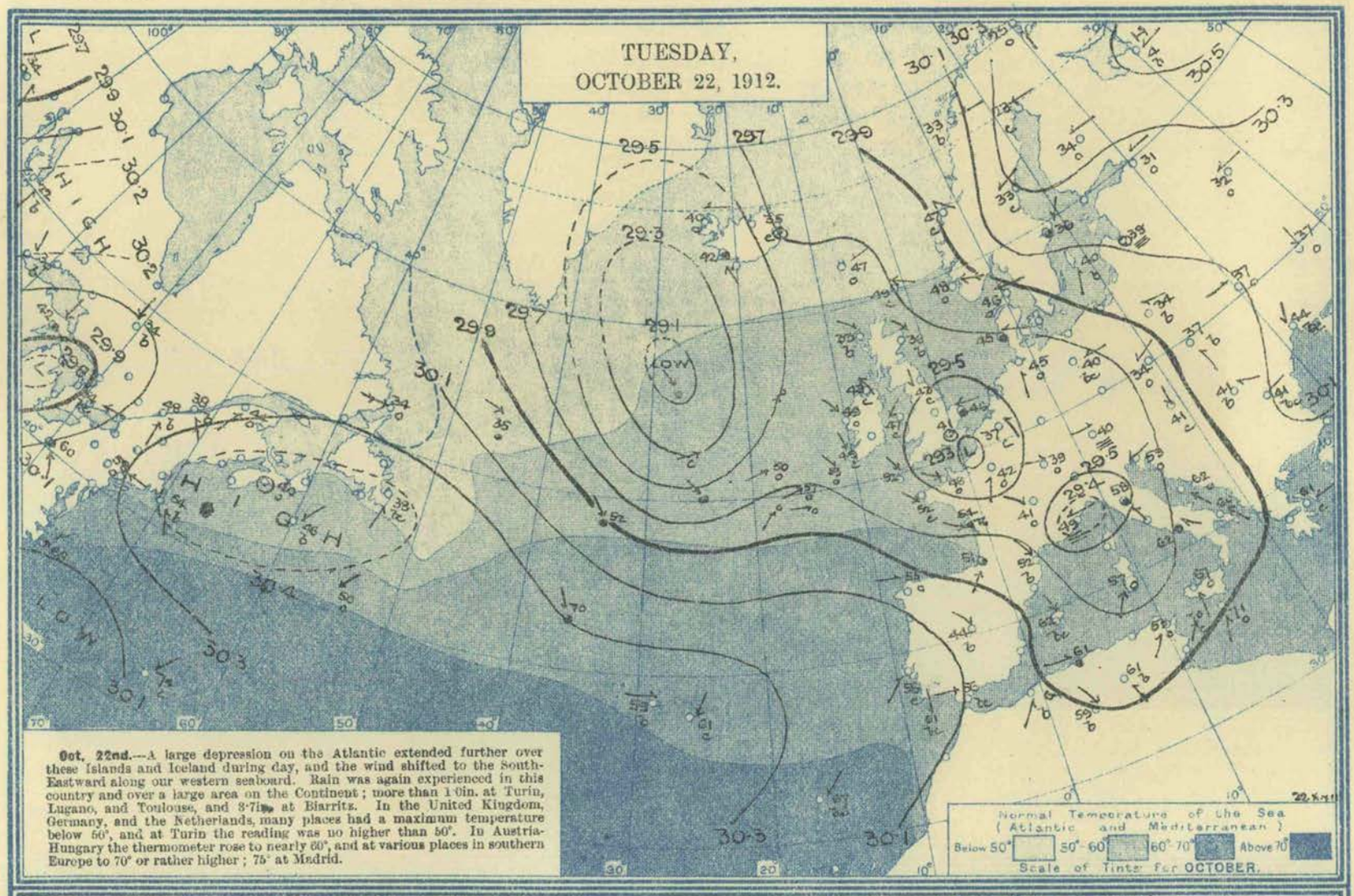
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



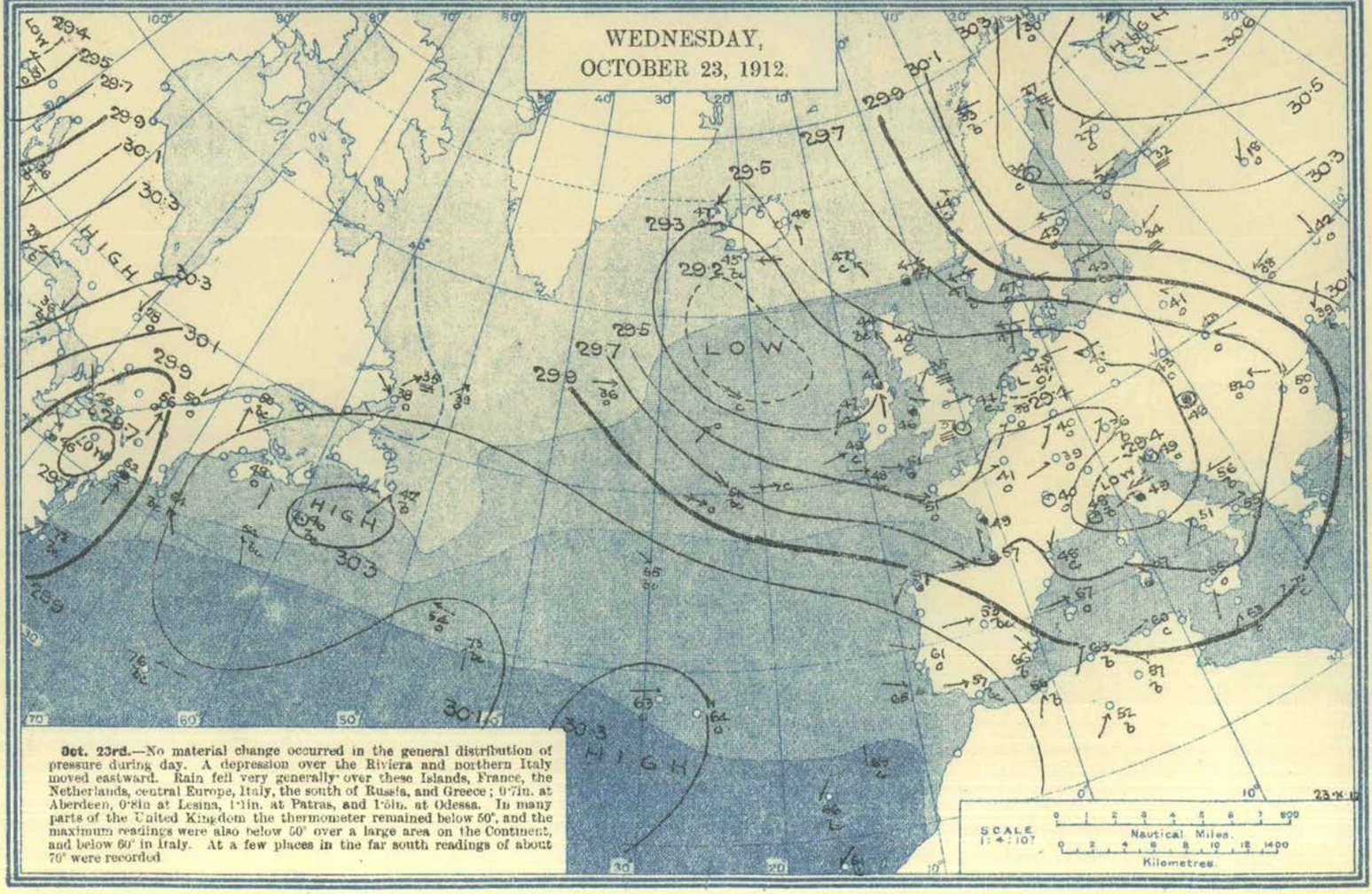
Oct. 20th.—A depression to the southward of Iceland moved towards Scotland during day, and the wind increased to a gale from West at Blacksod Point, and from North-West over a large area on the Atlantic. Thunderstorms occurred at Kilmarnock and Aberdovey, and rain fell very generally in these Islands, France and the northern countries of the Continent, as well as at Rome; more than 0·5in. in various parts of the United Kingdom, and nearly an inch at some places in the north of France, and at Hernösand. In the most southern regions the thermometer rose to 70° or slightly higher—75° at San Fernando—but in the central countries it did not rise much above 50°. In England maxima of 55° or a little higher were common.



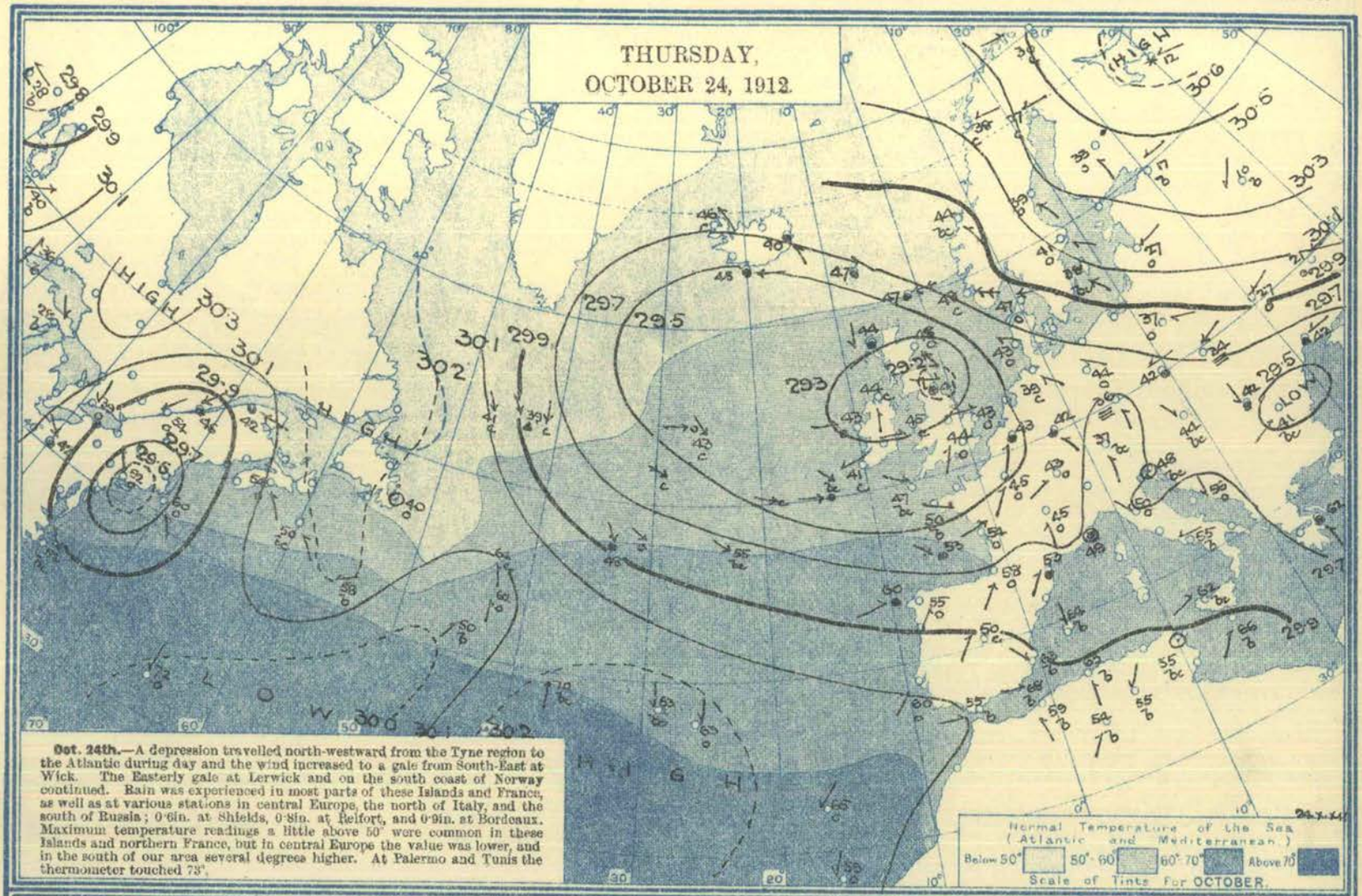
Oct. 21st.—A small depression moved southwards over the north-west of these Islands during day, and gales from the North-Westward became general along our western seaboard. Thunderstorms occurred in a few parts of this country, and rain was experienced in nearly all parts of the United Kingdom, France, the Netherlands, and Switzerland, and also in Greece and Italy. About 1·4in. at Cally, Gatehouse, 0·5in. at a few of our other stations, 1·0in. in some French localities and at Athens, and 1·8in. at Lugano. Thunderstorms occurred at Rochefort and in the surrounding regions. In most parts of these Islands the thermometer failed to reach 50°, and rose very little above it in the central countries and at Turin.



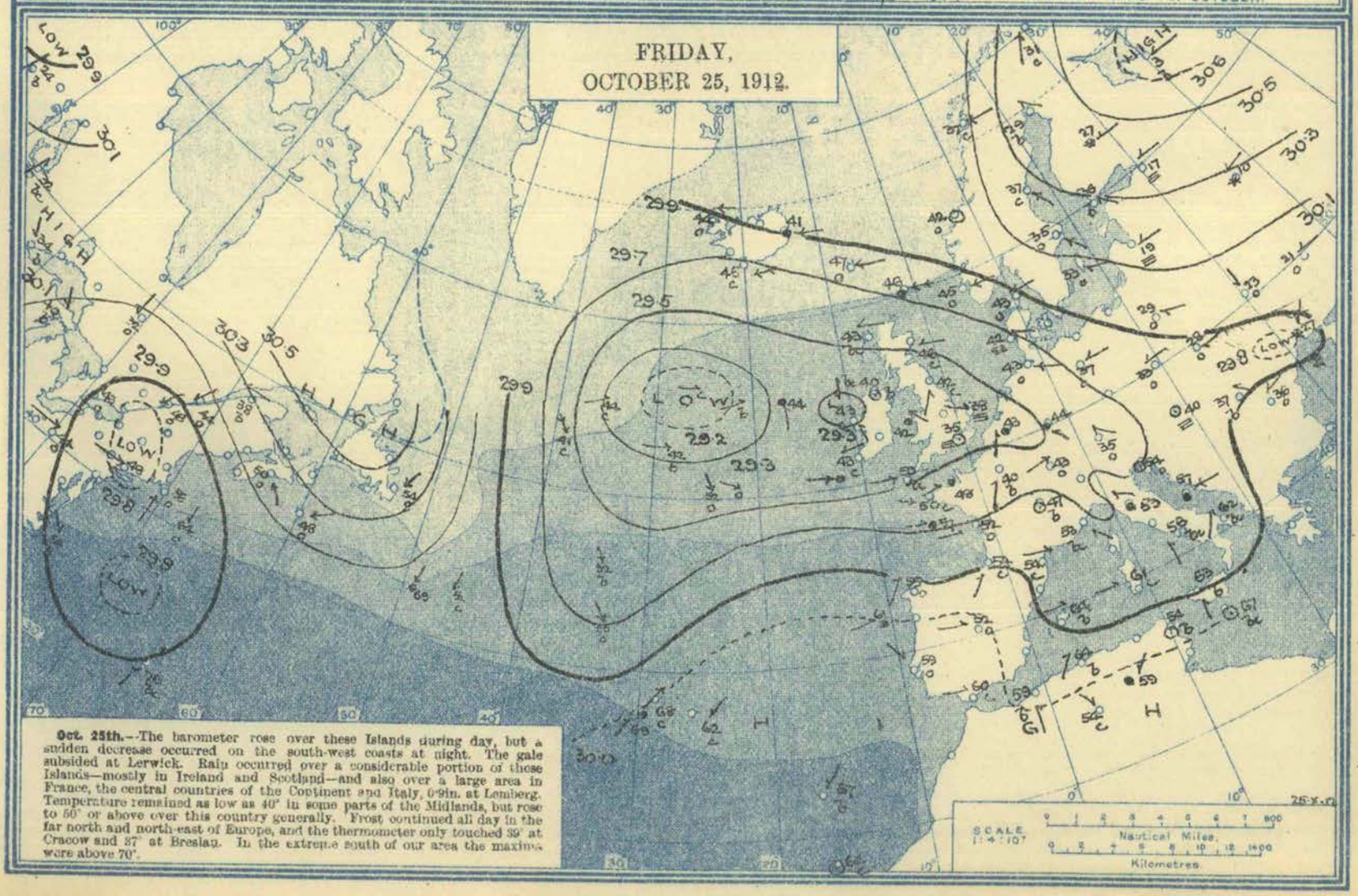
Oct. 22nd.—A large depression on the Atlantic extended further over these Islands and Iceland during day, and the wind shifted to the South-Eastward along our western seaboard. Rain was again experienced in this country and over a large area on the Continent; more than 1·0in. at Turin, Lugano, and Toulouse, and 3·7in. at Biarritz. In the United Kingdom, Germany, and the Netherlands, many places had a maximum temperature below 50°, and at Turin the reading was no higher than 50°. In Austria-Hungary the thermometer rose to nearly 60°, and at various places in southern Europe to 70° or rather higher; 75° at Madrid.



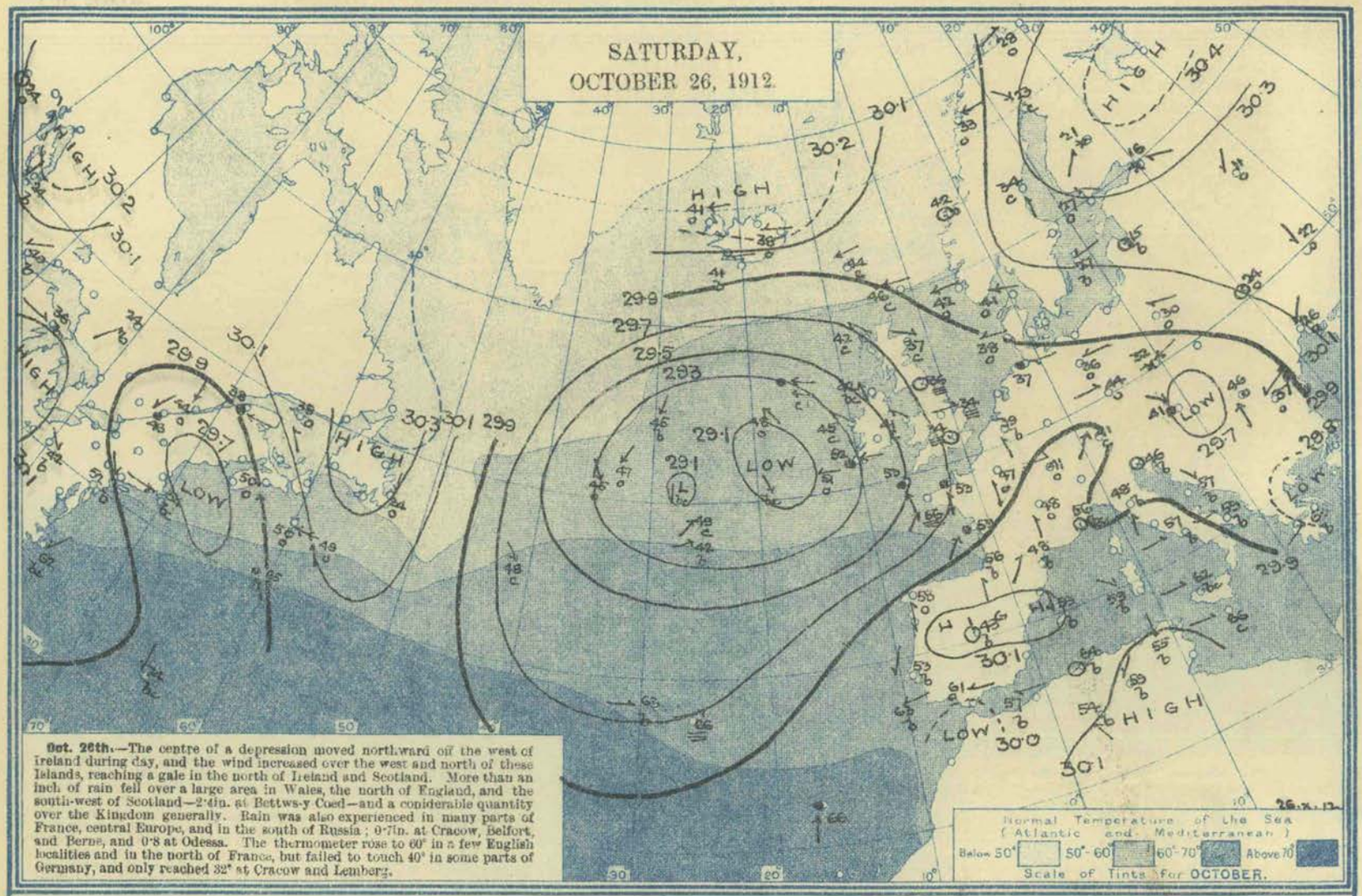
Oct. 23rd.—No material change occurred in the general distribution of pressure during day. A depression over the Riviera and northern Italy moved eastward. Rain fell very generally over these Islands, France, the Netherlands, central Europe, Italy, the south of Russia, and Greece; 0·7in. at Aberdeen, 0·8in at Lesina, 1·3in. at Patras, and 1·5in. at Odessa. In many parts of the United Kingdom the thermometer remained below 50°, and the maximum readings were also below 50° over a large area on the Continent, and below 60° in Italy. At a few places in the far south readings of about 70° were recorded



Oct. 24th.—A depression travelled north-westward from the Tyne region to the Atlantic during day and the wind increased to a gale from South-East at Wick. The Easterly gale at Lerwick and on the south coast of Norway continued. Rain was experienced in most parts of these Islands and France, as well as at various stations in central Europe, the north of Italy, and the south of Russia; 0·6in. at Shields, 0·8in. at Belfort, and 0·9in. at Bordeaux. Maximum temperature readings a little above 50° were common in these Islands and northern France, but in central Europe the value was lower, and in the south of our area several degrees higher. At Palermo and Tunis the thermometer touched 73°.

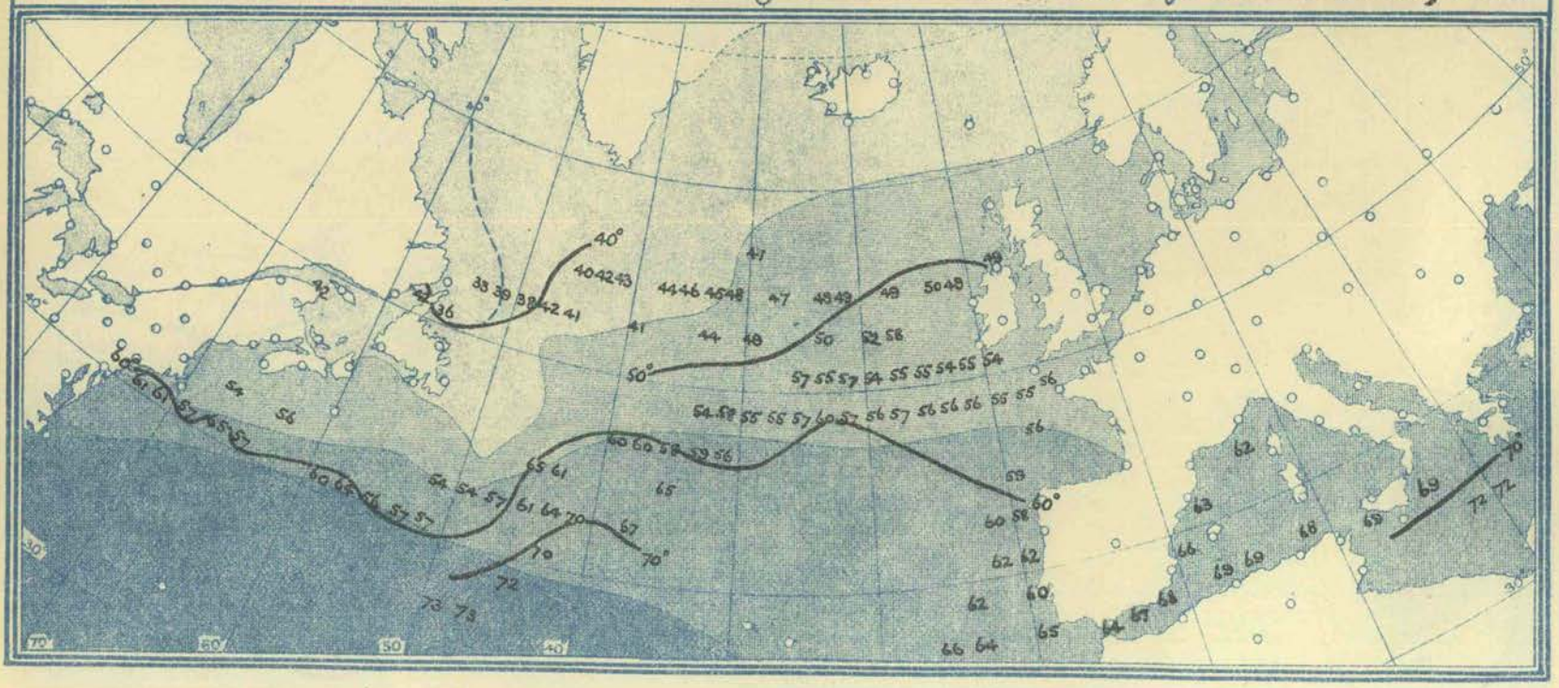


Oct. 25th.—The barometer rose over these Islands during day, but a sudden decrease occurred on the south-west coasts at night. The gale subsided at Lerwick. Rain occurred over a considerable portion of these Islands—mostly in Ireland and Scotland—and also over a large area in France, the central countries of the Continent and Italy, 0·9in. at Lemberg. Temperature remained as low as 40° in some parts of the Midlands, but rose to 50° or above over this country generally. Frost continued all day in the far north and north-east of Europe, and the thermometer only touched 32° at Cracow and 37° at Breslau. In the extreme south of our area the maxima were above 70°.



Oct. 26th.—The centre of a depression moved northward off the west of Ireland during day, and the wind increased over the west and north of these Islands, reaching a gale in the north of Ireland and Scotland. More than an inch of rain fell over a large area in Wales, the north of England, and the south-west of Scotland—2·4in. at Bettws-y Coed—and a considerable quantity over the Kingdom generally. Rain was also experienced in many parts of France, central Europe, and in the south of Russia; 0·7in. at Cracow, Belfort, and Berne, and 0·8 at Odessa. The thermometer rose to 60° in a few English localities and in the north of France, but failed to touch 40° in some parts of Germany, and only reached 32° at Cracow and Lemberg.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 26TH OCTOBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇛⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; K = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 44. FORTY-FOURTH WEEK, SUNDAY, OCTOBER 27TH, TO SATURDAY, NOVEMBER 2ND, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. As a whole the conditions were unsettled, but most parts of the Kingdom experienced fairer weather late in the week, especially the eastern half of England. Rain was heavy in the south-west and south of England at the beginning of the period, and in Scotland on Wednesday. Thunderstorms occurred in various parts of Ireland and England on Tuesday and Wednesday.

Temperature was 2° above the average in England E., and nearly 2° below it in Scotland N. and over Ireland. Elsewhere the divergence from the normal was smaller. The highest of the maxima occurred early in the week, and ranged from 64° in the English Channel to 55° in Scotland N. The lowest of the minima, which were recorded on November 1st or 2nd, varied from 21° in Ireland and 23° in Scotland W. to 30° in Scotland N. and to 36° in the English Channel. The lowest grass readings were 12° at Newton Rigg, 15° at Blackpool, 16° at Hampstead, and 17° at West Linton, Southport, and Dublin. The earth temperature at a depth of 1 foot was above the average in various parts of England, but below it over the United Kingdom generally. At 4 feet the temperature was everywhere below the normal.

Mean Temperature of the Sea. The water was cold for the time of the year on most parts of the coast—about 3° at Wick and Newquay. At Pennan Bay, however, its temperature was 2° above the average. The mean values ranged from 54° on the extreme south-west coast of England to 46° at Cromarty.

Rainfall exceeded the average except in Ireland and the north-west and extreme north of Great Britain. The excess was considerable in many districts, and large in England S.W. On the 27th more than an inch fell in several parts of Devon and Cornwall, the largest measurements being 1·5 in. at Plymouth and 3·1 in. at Redstone, Sheepstor. On the same occasion 1·4 in. fell at Llangammarch Wells and 1·1 in. at Cardiff. On the 28th 1·1 in. fell at Tunbridge Wells, and on the 30th about 1·2 in. at Aberdeen and Balmoral.

Bright Sunshine was above the normal in most districts, but below it in Scotland N. and E., England S.W., and the English Channel, and equal to it in England E. In England S.E., where the mean daily duration was over 3 hours, the percentage of the possible amount was 32, but in Scotland N. the corresponding figures were 1·4 hour and 15.

Barometer and Wind. Until Thursday the pressure distribution was cyclonic, depressions reaching these Islands from the Atlantic and causing fresh or strong winds—a gale at times on the south-western, western and northern coasts—from between S.W. and S.E. By Friday morning, however, an anticyclone extended over the Kingdom from the north-westward, and while the wind was strong to a gale from the North Westward on the North Sea, it became light and variable over these Islands.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 175.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 9 weeks from Sept. 1st, 1912.	Warmth ...	0 * 6	1 * 4	1 * 4	0 * 5	2 * 4	0 * 6	1 * 5	1 * 6	0 * 5	2 * 4	1 * 3	0 * 6
	Rainfall ...	2 * 5	5 * 3	3 * 4	4 * 5	2 * 6	3 * 6	2 * 5	1 * 5	3 * 6	1 * 5	1 * 5	3 * 5
	Sunshine ...	3 * 6	2 * 6	2 * 2	2 * 3	1 * 2	3 * 2	1 * 3	4 * 3	4 * 3	3 * 2	1 * 3	4 * 3

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(27067—24.) Wt. 173—814. 450. 11/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*48*	*28th*	*30*	*31st*	*42·8*	*35·4*	*39·0*	—																*Baltasound.*
a, Islands .. *a* Lerwick ..	49	27th	30	1st	43·9	38·3	41·0	- 3·4	5	14	•	•	42·3	•	•	•	7	0·71	—	1·5	- 0·6	17	- 6	Deerness.
a Stornoway	51	28, 29	35	1, 2	47·3	39·0	43·0	- 1·4	20	8	•	•	•	•	•	•	5	0·82	- 0·51	1·0	- 1·1	11	-13	Stornoway.
a Castlebay, Barra Isd.	*51*	*27, 28, 29*	*37*	*1st*	*48·6*	*42·6*	*45·5*	- *0·8*	*25*	*0*							7	*0·66*	—	*1·1*	—	*12*	—	*Castlebay.*
a Wick	51	27th	33	1st	45·6	39·1	42·3	- 2·0	14	8	•	•	•	•	•	•	6	0·81	+ 0·11	•	•	•	•	
b, Main- *p* Strathpeffer ..	51	28th	33	1st	46·1	37·3	41·6	- 1·6	11	19	•	•	•	•	•	•	6	1·09	+ 0·44	1·7	- 0·6	19	- 7	Strathpeffer.
land. *p* Glencarron ..	53	27th	31	31, 1	45·8	36·6	41·1	- 1·7	11	21	•	•	•	•	•	•	7	1·86	- 0·25	•	•	•	•	
p Fort Augustus..	52	28th	32	1st	47·6	38·7	43·0	- 0·8	21	9	•	•	•	•	•	•	6	1·34	+ 0·36	1·2	- 0·3	13	- 3	Fort Augustus.
p Fort William .. S	55	27th	32	1st	48·1	39·3	43·6	- 1·0	23	8	•	•	•	•	•	•	5	1·32	- 0·48	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	54	28th	34	1st	47·1	39·0	42·9	- 1·3	19	8	3	25	44·1	-1·3	46·8	-2·2	—	—	—	1·5	—	17	—	Crathes S.
a Nairn	53	27th	30	27th	46·4	34·7	40·4	- 3·4	12	28	•	•	•	•	•	•	7	1·14	+ 0·40	*1·2*	—	*13*	—	*Gordon Castle.*
a Aberdeen	54	27th	32	1st	47·7	37·4	42·4	- 2·1	22	13	•	•	•	•	•	•	7	0·83	+ 0·32	1·3	—	14	—	Nairn.
a Balmoral ..	53	28th	30	1st	48·4	34·3	41·1	+ 0·4	18	30	5	27	•	•	47·0	-1·5	7	1·93	+ 1·26	1·9	- 0·7	21	- 8	Aberdeen.
p Crieff	53	27th	29	1st	47·6	37·9	42·6	- 1·4	21	11	•	•	•	•	•	•	6	2·49	+ 1·59	•	•	•	•	Balmoral.
a Leith	59	27th	32	27th	50·3	39·6	44·8	- 1·0	30	7	•	•	•	•	•	•	4	1·50	+ 0·54	1·7	—	19	—	Balruddery.
p West Linton .. S	56	27th	27	1st	47·3	36·0	41·5	- 1·0	15	24	2	17	•	•	•	•	5	1·03	+ 0·57	•	•	•	•	
p Marchmont	56	27th	29	1st	47·7	37·6	42·5	- 0·6	22	12	2	24	42·9	-1·3	•	•	5	0·94	—	*1·3*	—	*14*	—	*West Linton.*
																	6	1·03	+ 0·25	1·9	- 0·3	21	- 4	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	59	27th	33	1st	50·3	40·1	45·1	+ 0·7	30	5	2	28	43·1	- 0·8	46·5	-1·3	5	0·78	- 0·03	2·5	—	27	—	Cockle Park.
a Shields	59	27th	30	1, 2	51·7	38·9	45·1	- 0·5	35	9	•	•	•	•	•	•	5	0·55	- 0·07	•	•	•	•	*Newcastle.*
p Durham	59	27th	31	1st	50·1	39·3	44·5	+ 0·1	29	8	1	27	•	•	•	•	6	0·75	+ 0·09	2·4	0·0	26	0	Durham.
a, North .. *p* Rounton	60	27th	28	1st	50·4	38·4	44·2	+ 0·4	31	10	3	21	45·0	•	•	•	6	0·68	- 0·03	•	•	•	•	Rounton.
a West Witton	*58*	*27th*	*30*	*27, 1*	*49·4*	*37·1*	*43·1*	—	*28*	*14*	3	26	44·1	•	47·0	•	*4*	*0·65*	—	•	•	•	•	*West Witton.*
p Scarborough	60	27th	35	1, 2	52·1	42·5	47·2	+ 0·9	36	0	•	•	•	•	49·7†	•	6	1·40	+ 0·71	2·4	—	26	—	Scarborough.
p York	63	28th	32	1, 2	53·0	41·1	46·9	+ 1·4	38	3	•	•	47·0	-1·7	50·0	-1·9	4	0·76	+ 0·21	1·4	- 0·7	15	- 7	York.
a Spurn Head	57	27th	35	1, 2	51·1	42·7	46·8	- 0·3	34	0	2	23	44·9	-1·7	49·3	-2·5	5	1·11	+ 0·62	*2·1*	—	*22*	—	*Hull.*
b South .. *a* Lincoln	60	27th	30	2nd	52·0	41·0	46·3	+ 0·9	34	3	•	•	45·7	-1·7	49·0	-2·7	5	1·12	+ 0·62	•	•	•	•	Lincoln.
a Fulbeck	59	27th	29	1, 2	51·6	39·9	45·6	+ 0·6	34	6	2	24	48·1	+1·0	50·3	-2·0	5	0·80	+ 0·30	2·2	—	23	—	Rauceby.
											•	•	•	•	•	•	—	—	—	3·1	—	33	—	Skegness.
3. ENGLAND, E.											2	26	48·4	-0·4	51·5	-1·7	—	—	—	*2·8*	—	*30*	—	*Lowestoft.*
p Cromer	58	27th	33	2nd	52·4	41·3	46·7	+ 0·8	36	2	•	•	•	•	•	•	7	1·14	—	2·2	—	23	—	Cromer.
p Little Massingham ..	*57*	*27th*	*30*	*2nd*	*51·9*	*42·1*	*46·9*	+ *1·4*	*34*	*0*	•	•	•	•	•	•	5	*1·07*	—	*2·5*	—	*27*	—	*Little Massingham*
a, North .. *a* Yarmouth	60	27th	32	2nd	54·6	43·6	48·9	+ 2·1	48	0	•	•	48·9	+1·1	51·1	-2·3	6	0·74	+ 0·11	2·5	—	27	—	Yarmouth.
a Norwich	59	27, 28	31	2nd	53·0	43·7	48·2	+ 3·2	43	0	1	22	47·5	•	•	•	6	0·93	—	*2·6*	—	*28*	—	*Norwich.*
p Geldeston	60	27-29	29	2nd	54·3	43·4	48·7	+ 2·1	47	0	•	•	•	•	•	•	6	0·54	- 0·06	2·8	+ 0·1	30	+ 1	Geldeston.
p Cambridge	60	28, 29	28	2nd	53·9	43·0	48·3	+ 2·5	44	0	2	20	48·4	+0·2	51·2	-1·9	5	0·71	+ 0·21	2·4	- 0·3	25	- 3	Cambridge.
a Felixstowe	*58*	*28, 29*	*32*	*2nd*	*52·9*	*44·7*	*48·7*	+ *1·1*	*47*	*0*	•	•	•	•	•	•	*5*	*0·72*	—	*3·3*	—	*34*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	58	29th	31	2nd	52·3	43·6	47·8	+ 0·2	41	0	2	26	49·6	-1·6	52·1	-1·8	4	0·67	—	3·6	—	38	—	Clacton.
a Rothamsted	59	27, 28	28	2nd	53·3	41·4	47·2	+ 2·6	39	2	•	•	•	•	•	•	5	1·19	+ 0·52	2·7	—	28	—	Rothamsted.
a Shoeburyness	*59*	*28th*	*33*	*2nd*	*53·1*	*43·9*	*48·4*	+ *0·5*	*45*	*0*	2	21	50·3	-0·1	•	•	*3*	*0·53*	+ *0·08*	*3·0*	—	*31*	—	*Southend.*
p Tottenham	62	28th	33	2nd	56·0	46·4	51·1	+ 4·7	64	0	2	24	•	•	52·0	-2·8	4	0·75	—	2·8	+ 0·1	29	+ 1	Tottenham.
4. MIDLAND COUNTIES.											2	25	44·7	-1·8	48·5	-2·2	—	—	—	*3·3*	—	*25*	—	*Huddersfield.*
a Harrogate	58	27th	30	1st	50·0	38·7	44·2	- 0·1	29	9	2	24	45·2	-1·8	47·2	-1·8	4	0·89	+ 0·21	2·7	—	29	—	Harrogate.
a Bawtry	62	27th	30	1st	52·0	39·1	45·4	+ 0·6	36	8	2	19	46·4	•	48·7	•	4	2·10	+ 1·66	2·6	+ 0·4	28	+ 5	Worksop.
p Buxton	*56*	*27th*	*28*	*1st*	*47·9*	*39·3*	*43·5*	+ *0·9*	*22*	*8*	2	20	45·2	-0·6	48·5	-2·0	*5*	*1·20*	- *0·03*	*1·4*	—	*15*	—	*Buxton.*
a East .. *a* Nottingham	61	27th	29	27th	52·4	41·1	46·6	+ 1·2	36	3	2	26	46·3	+0·1	49·0	-2·4	4	1·01	+ 0·51	1·3	—	14	—	Nottingham.
p Birmingham, Edgbsn.	57	27th	33	1st	50·3	42·9	46·5	+ 1·2	32	0	2	20	47·1	+0·4	49·3	-1·4	5	1·09	+ 0·52	1·0	—	12	—	Birmingham.
a Raunds	58	27-29	28	2nd	52·7	40·6	46·5	+ 1·4	37	4	2	20	47·7	•	51·7	•	5	1·11	—	•	•	•	•	Raunds.
a Oxford	59	28th	32	27th	52·9	42·4	47·5	+ 1·4	39	0	2	26	•	•	•	•	4	1·28	+ 0·70	3·1	+ 0·5	32	+ 5	Oxford.
											2	25	46·0	-1·2	49·2	-1·9	—	—	—	2·6	—	28	—	Sheffield.
a Cheadle	57	27th	30	31, 1, 2	49·6	37·1	43·2	- 1·1	29	14	3	21	•	•	•	•	4	1·19	+ 0·51	•	•	•	•	Cheadle.
p Shrewsbury	63	27th	28	1st	59·3	40·7	49·7	+ 3·8	59	4	2	25	•	•	•	•	5	0·98	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	57	27-29	31	1, 2	52·4	40·0	46·0	+ 0·2	36	6	2	26	•	•	•	•	4	1·43	+ 0·86	•	•	•	•	Hereford.
a Cirencester	56	27-29	27	2nd	50·0	40·0	44·9	+ 0·6	29	6	2	26	47·9	•	49·6	•	5	1·69	+ 1·01	2·5	- 0·1	26	- 1	Cirencester.
a Bath	59	27-29	29	1, 2	54·6	42·1	48·2	+ 1·2	43	0	•	•	49·3	-1·1	52·7	-2·2	5	1·91	+ 1·23	3·4	—	35	—	Bath.
5. ENGLAND, S.E.											2	22	48·9	+0·1	51·8	-0·9	—	—	—	•	•	•	•	Canterbury.
p Kew	59	28th	33	1, 2	53·6	46·0	49·7	+ 3·4	54	0	2	19	49·0	+0·9	51·0	-2·1	5	0·86	+ 0·29	3·0	+ 0·7	31	+ 7	Kew.
a Marlborough	57	28-30	26	2nd	52·7	41·0	46·7	+ 2·1	37	3	2	20	•	•	50·6	•	5	1·95	+ 1·17	2·1	- 0·4	22	- 4	Marlborough.
a Margate	59	27-29	34	2nd	53·7	46·3	49·9	+ 1·8	55	0	•	•	49·4	+1·2	51·0	-1·9	5	0·65	+ 0·03	3·1	+ 0·3	32	+ 3	Margate.
a Wisley, Surrey ..	59	28th	31	1st	53·3	42·7	47·8	+ 0·8	41	0	2	22	48·7	+0·6	50·8	-1·8	4	1·16	—	3·1	—	32	—	Wisley
a Swarraton	57	27-29	28	2nd	52·0	43·0	47·4	+ 2·1	38	0	2	25	50·3	+0·2	52·6	-2·0	5	1·84	+ 1·07	3·6	—	38	—	Worthing.
a Tunbridge Wells ..	60	27th	30	1, 2	52·4	42·4	47·3	+ 1·1	37	0	2	25	48·7	+0·6	•	•	4	1·97	+ 1·18	3·2	+ 0·4	33	+ 4	Tunbridge Wells.
a Dungeness	60	27th	30	2nd	54·4	45·4	49·8	+ 0·8	55	0	•	•	•	•	•	•	2	1·08	+ 0·43	3·2	—	33	—	Littlestone.
p Hastings..	59	27-29	34	2nd	54·1	45·6	49·7	+ 1·0	54	0	2	27	50·2	•	52·4	•	4	1·39	+ 0·61	*3·8*	+ *0·7*	*40*	+ *7*	*Hastings.*
p Southampton	59	27-29	32	1, 2	54·3	45·0	49·5	+ 1·3	53	0	2	28	•	•	•	•	5	1·68	+ 0·88	2·9	+ 0·1	30	+ 1	Southampton
a Ventnor	59	28th	36	1st	54·6	46·9	50·6	+ 0·9	60	0	•	•	•	•	•	•	4	0·77	+ 0·20	2·9	- 0·2	30	- 3	Ventnor.
											1	27	50·6	+0·7	52·4	-2·2	—	—	—	*3·6*	—	*38*	—	*Portsmouth.*
											•	•	51·0	•	53·3	•	—	—	—	4·0	+ 1·0	42	+10	Eastbourne.
LONDON.											•	•	49·5	•	50·5	•	—	—	—	*3·3*	—	*34*	—	*Bournemouth.*
a Westminster	*60*	*27-29*	*31*	*2nd*	*54·9*	*44·7*	*49·7*	+ *3·3*	*54*	*0*	1	29	•	•	52·0	•	—	—	—	*3·2*	+ *0·1*	*33*	+ *1*	*Brighton.*
a Greenwich	*60*	*27-29*	*32*	*2nd*	*54·1*	*44·0*	*48·9*	+ *2·5*	*48*	*0*	2	27	•	•	•	•	*4*	*0·56*	*0·00*	*2·0*	+ *0·4*	*21*	+ *4*	*Westminster.*
a Hampstead	*58*	*28, 29*	*31*	*1, 2*	*52·6*	*42·4*	*47·4*	—	*38*	*0*	2	25	•	•	•	•	*4*	*0·54*	- *0·02*	*3·0*	+ *0·8*	*31*	+ *8*	*Greenwich.*
a Camden Square ..	*60*	*27-29*	*29*	*2nd*	*54·9*	*42·9*	*48·7*	—	*47*	*0*	2	16	•	•	•	•	*4*	*0·92*	—	*2·8*	—	*29*	—	*Hampstead.*
											2	25	•	•	•	•	*4*	*0·69*	—	*2·5*	—	*26*	—	*Camden Square.*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	53	27th	32	2nd	48·1	37·9	42·9	- 1·6	24	11	•	•	•	•	•	•	5	1·18	- 0·02	•	•	•	•	
p Glasgow	57	27th	32	1st	49·3	40·7	44·9	+ 0·3	26	4	2	21	•	•	•	•	4	1·22	+ 0·42	1·2	- 0·4	13	- 5	Glasgow.
p Rothesay	55	27th	32	1st	50·1	41·1	45·5	+ 0·1	28	3	•	•	•	•	48·0	-1·4	6	1·15	+ 0·16	•	•	•	•	
a Kilmarnock ..	58	27th	23	1st	50·9	37·1	43·8	- 0·8	33	14	•	•	•	•	•	•	4	0·55	—	*1·6*	—	*18*	—	*Kilmarnock.*
a Colmonell ..	56	27th	28	1st	51·3	39·4	45·2	+ 0·3	33	7	1	25	•	•	•	•	5	0·94	- 0·19	•	•	•	•	
p Dumfries	56	27th	28	1st	50·3	39·3	44·6	- 0·7	30	8	2	20	44·6	•	48·6	•	4	0·75	- 0·11	*2·2*	—	*24*	—	*Dumfries.*
p Cally, Gatehouse S	55	28th	24	1st	50·6	37·6	43·9	- 0·8	32	12	•	•	•	•	•	•	4	0·95	- 0·24	•	•	•	•	
b I. OF MAN.																								
p Douglas	55	27th	34	1st	50·3	42·7	46·4	- 0·5	31	0	1	26	•	•	•	•	6	1·05	- 0·02	3·1	+ 0·4	33	+ 5	Douglas.
7. *a*, ENGLAND, N.W.											2	19	44·6	-1·1	48·2	-2·0	—	—	—	*1·6*	—	*17*	—	*Burnley.*
p Aspatria	58	27th	26	1st	51·0	38·6	44·6	- 0·2	32	10	1	24	•	•	•	•	—	—	—	3·2	—	34	—	Hoylake.
p Newton Rigg	58	27th	26	1st	49·3	35·0	41·9	- 1·5	20	28	2	21	45·8	•	49·4	•	3	1·12	+ 0·18	2·4	—	26	—	Aspatria.
p Stonyhurst	60	27th	32	2nd	50·4	41·4	45·8	+ 1·3	29	2	5	12	44·8	-2·3	47·5	-2·3	5	1·04	+ 0·18	1·7	- 0·5	18	- 6	Newton Rigg.
p Blackpool	59	27th	28	1st	51·6	42·0	46·7	+ 0·2	33	0	2	22	•	•	•	•	6	0·63	- 0·41	1·6	- 0·6	17	- 6	Stonyhurst.
p Manchester (Whit. Pk.)	*62*	*27th*	*30*	*1st*	*52·4*	*42·1*	*47·1*	—	*36*	*0*	2	15	46·9	•	50·4	•	4	0·79	- 0·06	2·3	0·0	25	0	Blackpool.
a Liverpool (Bidston) ..	60	27th	35	1st	51·9	41·1	46·3	- 0·5	34	3	2	18	•	•	•	•	*4*	*1·23*	—	*1·0*	—	*11*	—	*Whit. Park.*
a Hawarden Bridge ..	60	28th	33	1st	53·1	40·6	46·7	- 0·7	39	4	•	•	•	•	•	•	5	0·64	- 0·06	*3·0*	—	*32*	—	*Liverpool.*
											2	17	45·2	-1·0	48·3	-2·5	4	0·77	+ 0·15	*2·3*	+ *0·7*	*31*	+ *8*	*Southport.*
b, NORTH WALES.											2	23	46·0	-1·3	50·1	-2·7	—	—	—	*0·9*	—	*10*	—	*Manchester City).*
p Llandudno	59	27th	40	1, 2	52·7	44·9	48·7	+ 0·3	47	0	•	•	•	•	•	•	5	0·75	- 0·05	2·6	+ 0·3	28	+ 4	Llandudno.
a Holyhead	57	27th	40	2nd	52·1	44·1	48·0	- 0·6	42	0	•	•	•	•	•	•	5	1·09	+ 0·17	2·0	—	21	—	Aberdovey.
p Bettws-y-Coed ..											•	•	•	•	•	•	—	—	—	•	•	•	•	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	58	27th	28	1, 2	51·6	39·3	45·3	+ 0·8	34	8	2	25	46·7	-1·1	49·4	-3·1	5	2·52		1·9	—	20	—	Aberystwyth.
a Pembroke	57	27, 28	40	1, 2	52·9	46·4	49·6	0·0	53	0	*	*	*	*	*	*	5	2·19	+ 1·29	2·3	—	24	—	Llangammarch
p Cardiff	58	27th	35	2nd	53·3	44·3	48·7	+ 2·5	47	0	2	26	48·4	+0·6	50·9	-1·8	5	2·01	+ 0·98	1·6	- 1·1	17	-12	Pembroke.[Wells
																				2·7	—	28	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	58	27, 29	33	1, 2	53·6	43·7	48·5	+ 1·7	46	0	2	27	*	*	*	*	4	1·75	+ 0·95	*2·9*	—	*30*	—	*Clifton.*
a Shaftesbury	55	29th	33	2nd	50·9	42·4	46·5	+ 0·4	32	0	*	*	48·8	*	51·5	*	6	1·85	+ 1·04	*	*	*	*	Shaftesbury.
a Arlington	56	27, 29	32	2nd	51·4	42·7	46·9	+ 0·4	34	0	*	*	51·4	*	*	*	5	2·08	+ 0·66	1·9	- 1·2	20	-12	Newquay.
a Cullompton	59	29th	29	2nd	53·7	42·7	48·0	+ 1·2	42	0	2	25	49·7	*	*	*	6	2·45	+ 1·60	1·7	- 0·8	18	- 8	Cullompton.
a Portland	58	27, 28	39	2nd	54·9	48·7	51·7	+ 1·7	68	0	*	*	*	*	*	*	5	1·74	—	*2·4*	—	*25*	—	*Weymouth.*
p Plymouth	57	27-29	34	2nd	54·3	46·4	50·2	+ 0·9	57	0	2	24	50·5	-0·1	*	*	5	2·48	+ 1·61	1·7	- 1·2	18	-13	Plymouth.
p Falmouth	57	27th	41	1, 2	53·7	47·9	50·7	+ 0·8	61	0	*	*	*	*	*	*	5	1·95	+ 0·84	2·2	- 1·1	23	-11	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	52	29th	40	1, 2	49·0	42·0	45·4	- 1·7	24	0	*	*	*	*	*	*	6	0·67	- 0·07	*	*	*	*	*
a Blacksod Point ..	53	27, 29	34	1, 2	50·7	41·6	46·0	- 2·3	30	1	*	*	*	*	*	*	4	0·67	- 0·53	*	*	*	*	*
p Markree Castle ..	56	29th	25	2nd	50·3	34·3	42·1	- 3·2	33	22	4	19	46·6	*	50·8	*	5	1·14	+ 0·18	2·3	- 0·1	25	- 1	Markree Castle.
a Birr Castle	55	28, 29	21	2nd	51·0	35·7	43·1	- 2·2	34	18	*	*	*	*	*	*	4	0·47	- 0·24	*3·1*	+ *0·4*	*32*	+ *4*	*Birr Castle.*
b, East .. { *p* Armagh	57	27th	31	2nd	51·3	37·7	44·3	- 1·1	34	12	3	24	46·4	-1·6	49·9	-1·8	3	0·32	- 0·32	3·1	+ 0·6	33	+ 7	Armagh.
a Donaghadee	57	27th	36	2nd	50·9	42·6	46·6	- 0·3	32	0	*	*	*	*	*	*	4	1·05	+ 0·38	*	*	*	*	*
											2	22	46·9	-1·8	49·9	-2·1	—	—	—	*	*	*	*	Trinity Coll.
											3	17	*	*	*	*	—	—	—	2·4	- 0·6	26	- 6	Phœnix Park.
10. IRELAND, S.																								
a, East .. { *p* Dublin, City	57	27th	31	2nd	51·1	41·1	46·0	- 1·6	32	3	2	27	*	*	*	*	3	0·38	- 0·23	*	*	*	*	Dublin City.
a Kilkenny	56	27, 28	27	1st	51·6	39·7	45·5	- 0·4	34	6	*	*	*	*	*	*	5	0·59	- 0·11	*	*	*	*	*
a Waterford	58	27th	31	1, 2	52·6	41·1	46·7	- 0·5	37	3	*	*	*	*	*	*	5	1·19	+ 0·31	*	*	*	*	*
b, West .. { *a* Birr Castle	55	28, 29	21	2nd	51·0	35·7	43·1	- 2·2	34	18	*	*	*	*	*	*	4	0·47	- 0·24	3·1	+ 0·4	33	+ 5	Birr Castle.
a Foynes	56	28th	31	1st	50·9	42·0	46·3	- 1·0	30	0	*	*	*	*	*	*	5	0·60	- 0·28	*	*	*	*	*
a Cahir	56	29th	27	1st	51·9	38·4	45·0	- 2·1	36	10	*	*	*	*	*	*	4	0·86	—	*	*	*	*	*
a Killarney	58	28th	29	1st	53·8	40·9	47·2	- 0·6	41	3	*	*	*	*	*	*	6	1·23	- 0·07	*	*	*	*	*
a Valencia	55	28th	33	1, 2	52·9	41·0	46·8	- 2·6	38	3	*	*	*	*	*	*	6	1·31	+ 0·04	2·4	- 0·4	25	- 4	Valencia.
a Roche's Point	56	27th	36	2nd	52·7	44·4	48·4	- 0·9	45	0	*	*	*	*	*	*	7	1·35	+ 0·40	3·4	—	35	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	64	27th	43	1, 2	56·0	48·0	51·9	0·0	69	0	*	*	*	*	*	*	6	1·14	+ 0·34	2·8	- 0·4	29	- 4	Scilly.
a Jersey, St. Aubins ..	61	27th	36	2nd	57·0	48·3	52·5	- 0·9	74	0	*	*	*	*	*	*	5	1·59	+ 0·62	2·8	- 0·6	29	- 6	St. Heliers.
a Guernsey (Villa Carey)	61	27th	38	2nd	56·4	47·4	51·8	- 0·3	69	0	2	30	52·0	-0·5	54·3	-2·0	6	1·53	+ 0·49	2·9	0·0	30	0	Guernsey.*

Additional Sunshine Means :—*Bognor, 3·4 hrs. 35 °/₀ ; Ramsgate, 3·4 hrs. 35 °/₀ ; Rhyl, 3·1 hrs. 33 °/₀ ; Salcombe, 2·3 hrs. 24 °/₀ ; Tenby, 1·5 hrs. (−1·3) 16 °/₀ (− 11 °/₀) ; Torquay, 2·5 hrs. (−0·4) 36 °/₀ (−4 °/₀).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 2nd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from. Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	48	45	47·4	-1·3	SCOTLAND, W. ..	Lamlash	51	47	49·4	-1·2
	Kirkwall	48	41	46·7	0·0		Ballantrae	51	47	49·1	+0·6
	Wick	48	47	47·8	-2·9	ENGLAND, N.W. ..	Port Erin	54	51	52·3	-0·2
SCOTLAND, E. ..	Cromarty	48	43	46·0	-1·8	ENGLAND, S.W. ..	Newquay	52	52	52·0	-3·3
	Pennan Bay	50	47	49·2	+2·0		Scilly	55	53	53·7	—
	Aberdeen, Cove Bay	50	49	49·6	+0·8		Plymouth‡	54	53	53·7	-1·7
ENGLAND, N.E. ..	Burnmouth, Berwick	47	46	46·6	-1·7		Salcombe	55	53	54·1	-0·7
	Scarborough	51	46	49·5	+0·1	IRELAND, N.W. ..	Sheephaven	51	48	49·0	-2·1
ENGLAND, E. ..	Shipwash Lightship	54	49	52·9	-0·7		Teelin	50	45	47·9	-2·8
	Margate‡	54	49	52·4	+0·1	IRELAND, S.W. ..	Cleggan	53	49	50·8	+1·2
ENGLAND, S.E. ..	Eastbourne‡	54	50	52·9	+0·1	IRELAND, E.	Seafield	54	48	51·0	-0·8
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years ; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-FOURTH WEEK—October 27th to November 2nd, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	55	30	46·3	38·3	42·2	− 1·8	17	− 10	10	− 1	6	0	1·14	−0·15	1·4	−0·5	15	− 5
Eastern.																		
1. SCOTLAND, EAST ...	59	27	47·8	37·1	42·3	− 0·9	23	− 5	14	− 1	6	+ 1	1·36	+0·60	1·7	−0·5	18	− 5
2. ENGLAND, N.E.	63	28	51·4	40·4	45·7	+ 0·1	33	− 1	4	− 3	5	+ 1	0·88	+0·22	2·3	+0·1	25	+ 1
3. ENGLAND, EAST ...	62	28	53·7	43·3	48·4	+ 2·1	45	+ 6	0	− 8	5	+ 1	0·83	+0·26	2·7	0·0	28	0
4. MIDLAND COUNTIES ...	63	27	52·4	40·4	46·2	+ 0·8	36	0	4	− 6	4	0	1·33	+0·67	2·4	+0·2	25	+ 2
5. ENGLAND, S.E.	60	26	53·5	44·4	48·8	+ 0·8	48	+ 1	0	− 5	4	0	1·34	+0·53	3·1	+0·5	32	+ 5
Western.																		
6. SCOTLAND, WEST ...	58	23	50·1	39·5	44·7	− 1·1	29	− 5	7	− 1	5	0	0·97	−0·33	2·2	+0·1	23	+ 1
7. ENGLAND, N.W.	60	26	51·5	41·0	46·1	− 0·5	33	− 5	3	− 3	5	0	0·85	−0·06	2·3	+0·2	24	+ 2
8. ENGLAND, S.W.	59	28	53·0	44·5	48·6	+ 0·4	46	− 2	0	− 4	5	0	2·10	+1·00	1·9	−0·6	20	− 6
9. IRELAND, NORTH ...	57	21	50·5	39·0	44·6	− 1·7	31	− 5	8	+ 1	4	− 1	0·72	−0·22	2·7	+0·3	29	+ 3
10. IRELAND, SOUTH ...	58	21	52·1	40·5	46·1	− 1·5	35	− 11	4	− 2	5	0	0·89	−0·08	2·8	+0·2	30	+ 2
11. ENGLISH CHANNEL ...	64	36	56·5	47·9	52·1	+ 0·5	71	+ 4	0	0	6	+ 1	1·42	+0·47	2·8	−0·2	29	− 2

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 9 Weeks, September 1st to November 2nd, 1912.

0. SCOTLAND, NORTH ...	66	28	*	*	*	*	362	− 91	24	−19	39	− 6	8·19	−2·23	2·8	0·0	25	0
Eastern.																		
1. SCOTLAND, EAST ...	72	21	*	*	*	*	393	− 92	76	+21	31	− 6	6·79	+1·02	2·7	−0·6	24	− 5
2. ENGLAND, N.E.	70	27	*	*	*	*	471	−101	26	+ 3	28	− 5	4·34	−0·79	3·5	−0·1	31	− 1
3. ENGLAND, EAST ...	69	27	*	*	*	*	544	−110	36	+ 8	27	− 5	4·47	−0·40	4·0	−0·1	36	0
4. MIDLAND COUNTIES ...	70	25	*	*	*	*	498	− 99	62	+25	19	−13	4·08	−1·07	3·3	−0·3	29	− 2
5. ENGLAND, S.E.	68	24	*	*	*	*	553	−174	27	+ 9	22	− 9	5·92	+0·09	4·4	+0·3	39	+ 3
Western.																		
6. SCOTLAND, WEST ...	67	22	*	*	*	*	445	− 94	38	+ 8	31	− 6	7·49	−2·04	3·3	0·0	29	0
7. ENGLAND, N.W.	66	26	*	*	*	*	488	−122	21	+ 4	27	− 8	5·65	−1·59	3·5	+0·1	31	+ 1
8. ENGLAND, S.W.	72	21	*	*	*	*	548	−143	13	0	24	−12	6·20	−1·83	4·1	+0·2	36	+ 1
9. IRELAND, NORTH ...	67	21	*	*	*	*	502	− 63	23	+ 2	28	−13	4·00	−3·35	3·3	+0·1	29	0
10. IRELAND, SOUTH ...	72	21	*	*	*	*	572	− 72	17	− 1	30	− 6	4·17	−2·88	3·7	−0·1	33	− 1
11. ENGLISH CHANNEL ...	68	36	*	*	*	*	761	−114	0	0	28	−11	6·58	−0·33	4·9	+0·1	43	+ 1

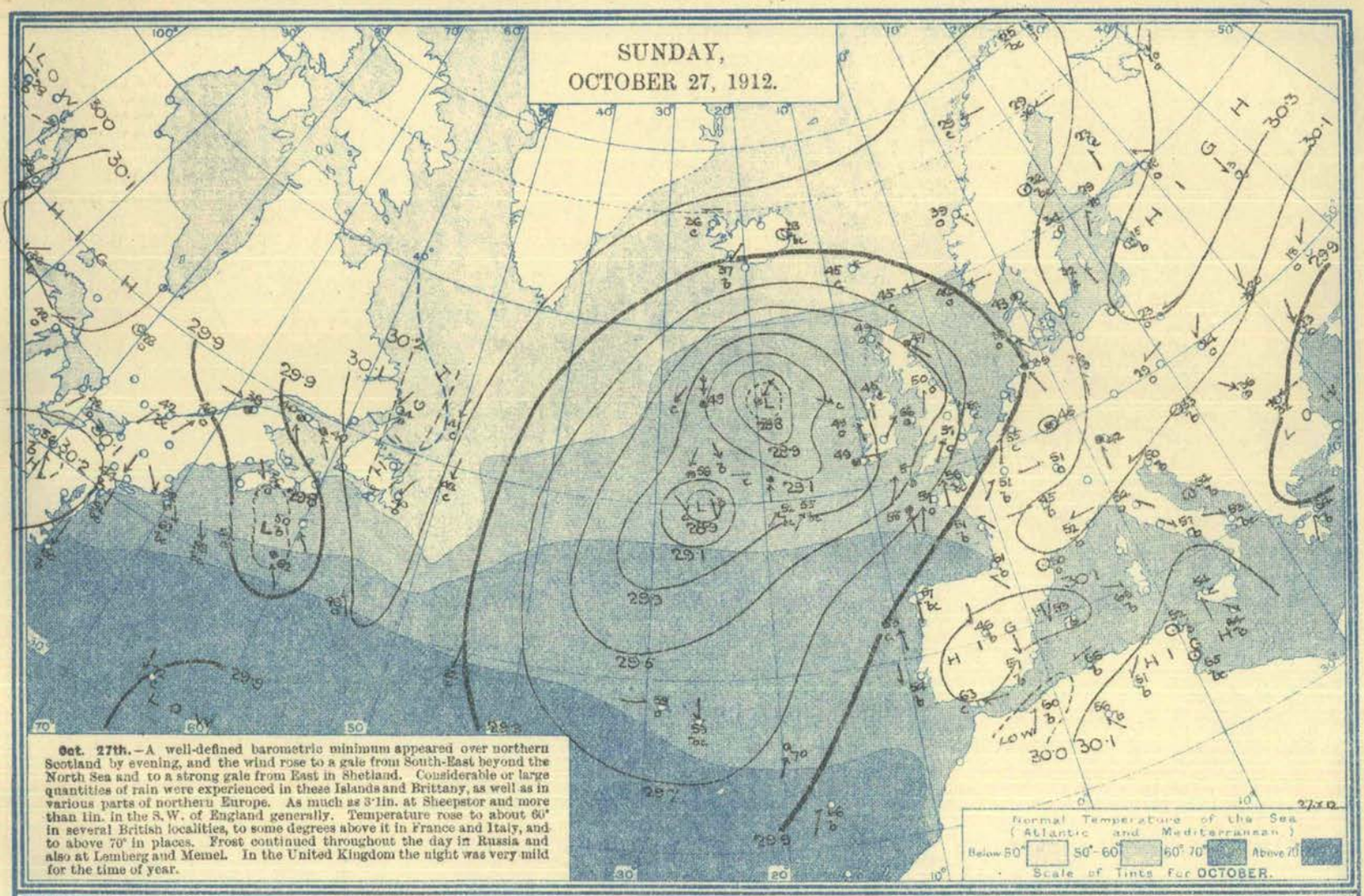
THE YEAR.—Aggregates, &c., for the Period of 44 Weeks, December 31st, 1911, to November 2nd, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1848	−159	451	−149	199	− 6	38·84	− 2·99	3·2	−0·2	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2062	−193	595	− 80	178	+ 8	27·53	+ 2·19	3·1	−1·0	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2462	− 60	399	− 99	172	+19	26·86	+ 6·27	3·5	−0·9	27	− 8
3. ENGLAND, EAST ...	91	14	*	*	*	*	2978	+ 64	310	−239	161	+13	24·94	+ 5·16	4·3	−0·5	34	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2722	−111	435	−135	155	+ 8	29·49	+ 7·58	3·5	−0·8	27	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	2998	−148	245	−154	151	+10	27·28	+ 5·34	4·5	−0·4	35	− 3
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2308	−134	367	− 88	179	+ 2	36·87	− 1·51	3·6	−0·6	28	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2540	−137	319	− 84	172	+ 9	31·74	+ 3·29	3·8	−0·5	29	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2792	−191	202	−112	179	+18	39·22	+ 8·54	3·9	−0·9	31	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2352	−200	260	−106	173	−20	30·48	− 0·73	3·5	−0·4	27	− 3
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2730	−200	184	− 93	201	+30	35·11	+ 2·88	3·6	−0·8	28	− 6
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3468	+ 7	44	− 65	181	+ 9	34·29	+ 8·70	5·0	−0·8	39	− 6

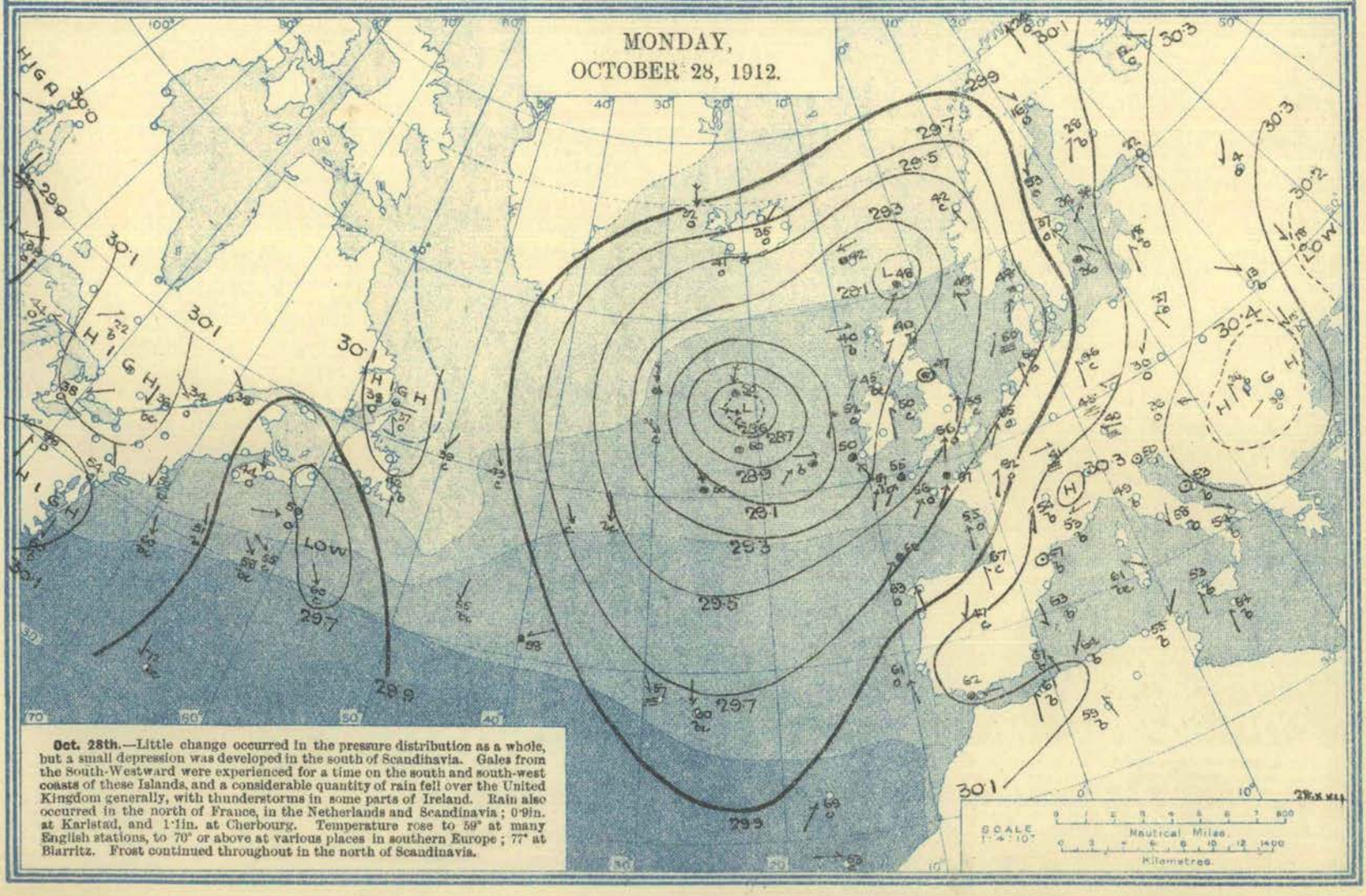
M.O., November 6, 1912.

NOTES ON TABLE IV.

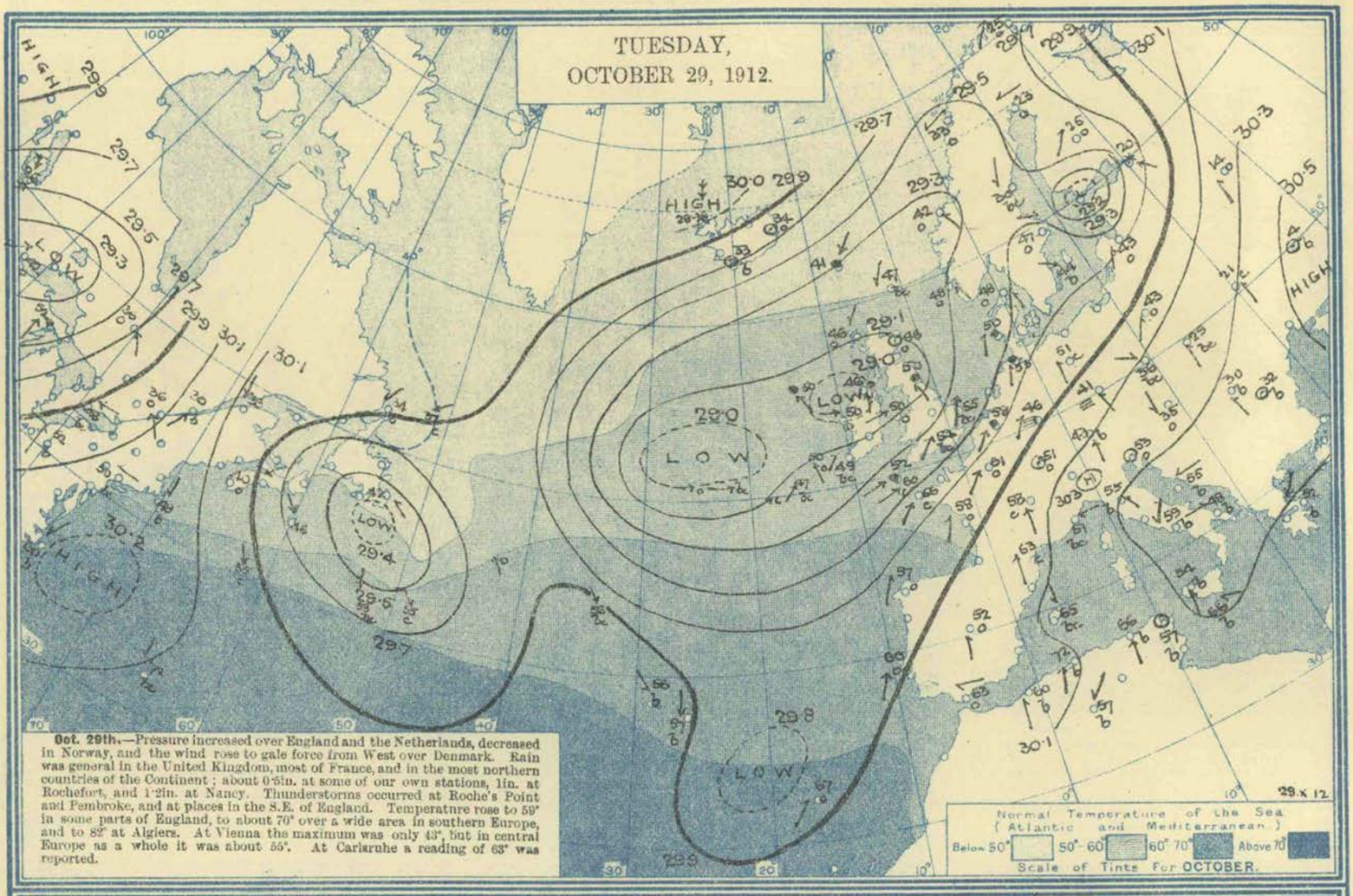
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



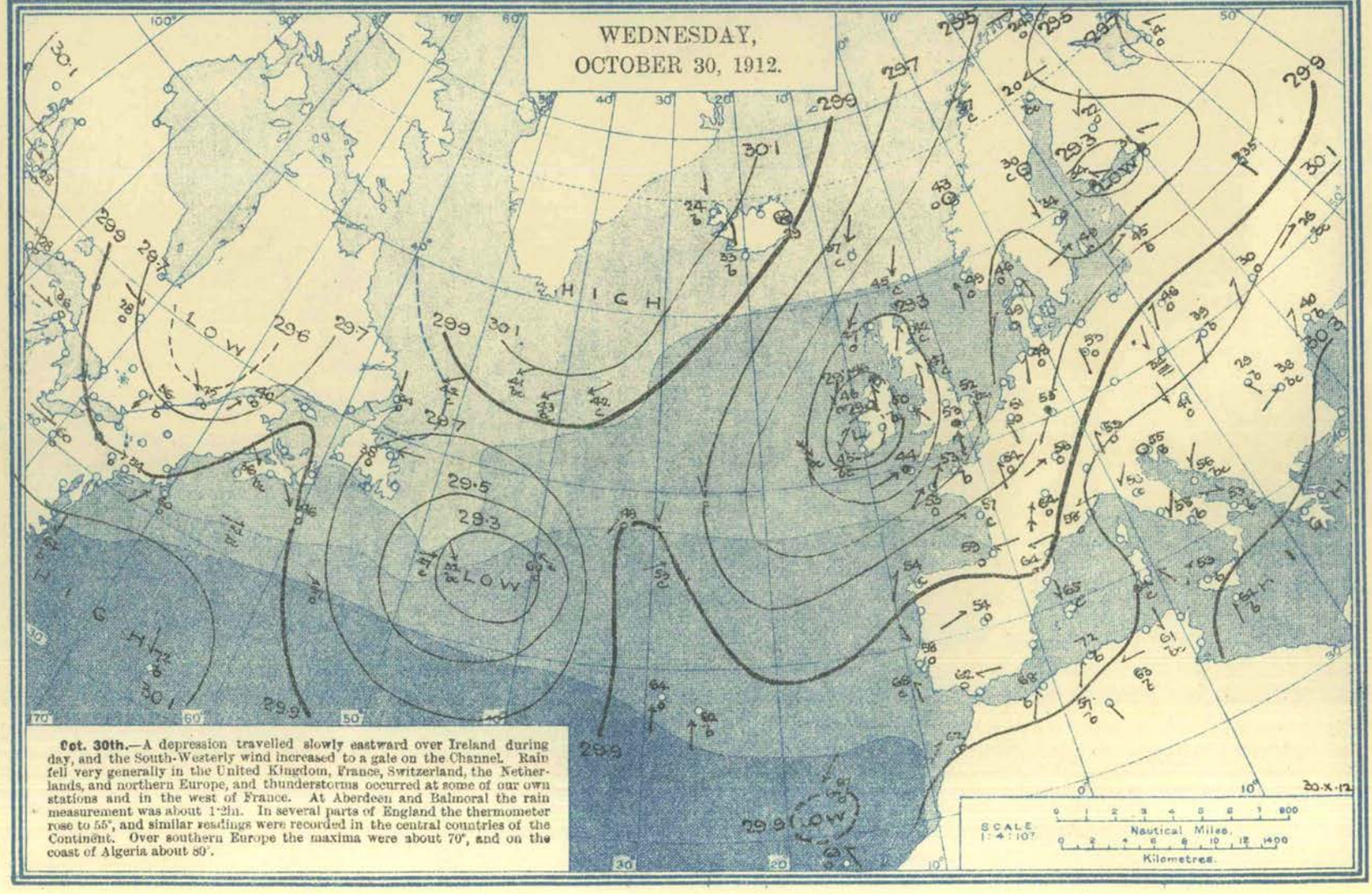
Oct. 27th.—A well-defined barometric minimum appeared over northern Scotland by evening, and the wind rose to a gale from South-East beyond the North Sea and to a strong gale from East in Shetland. Considerable or large quantities of rain were experienced in these Islands and Brittany, as well as in various parts of northern Europe. As much as 3·1in. at Sheepstor and more than 1in. in the S.W. of England generally. Temperature rose to about 60° in several British localities, to some degrees above it in France and Italy, and to above 70° in places. Frost continued throughout the day in Russia and also at Lemberg and Memel. In the United Kingdom the night was very mild for the time of year.



Oct. 28th.—Little change occurred in the pressure distribution as a whole, but a small depression was developed in the south of Scandinavia. Gales from the South-Westward were experienced for a time on the south and south-west coasts of these Islands, and a considerable quantity of rain fell over the United Kingdom generally, with thunderstorms in some parts of Ireland. Rain also occurred in the north of France, in the Netherlands and Scandinavia; 0·9in. at Karlstad, and 1·1in. at Cherbourg. Temperature rose to 59° at many English stations, to 70° or above at various places in southern Europe; 77° at Biarritz. Frost continued throughout in the north of Scandinavia.

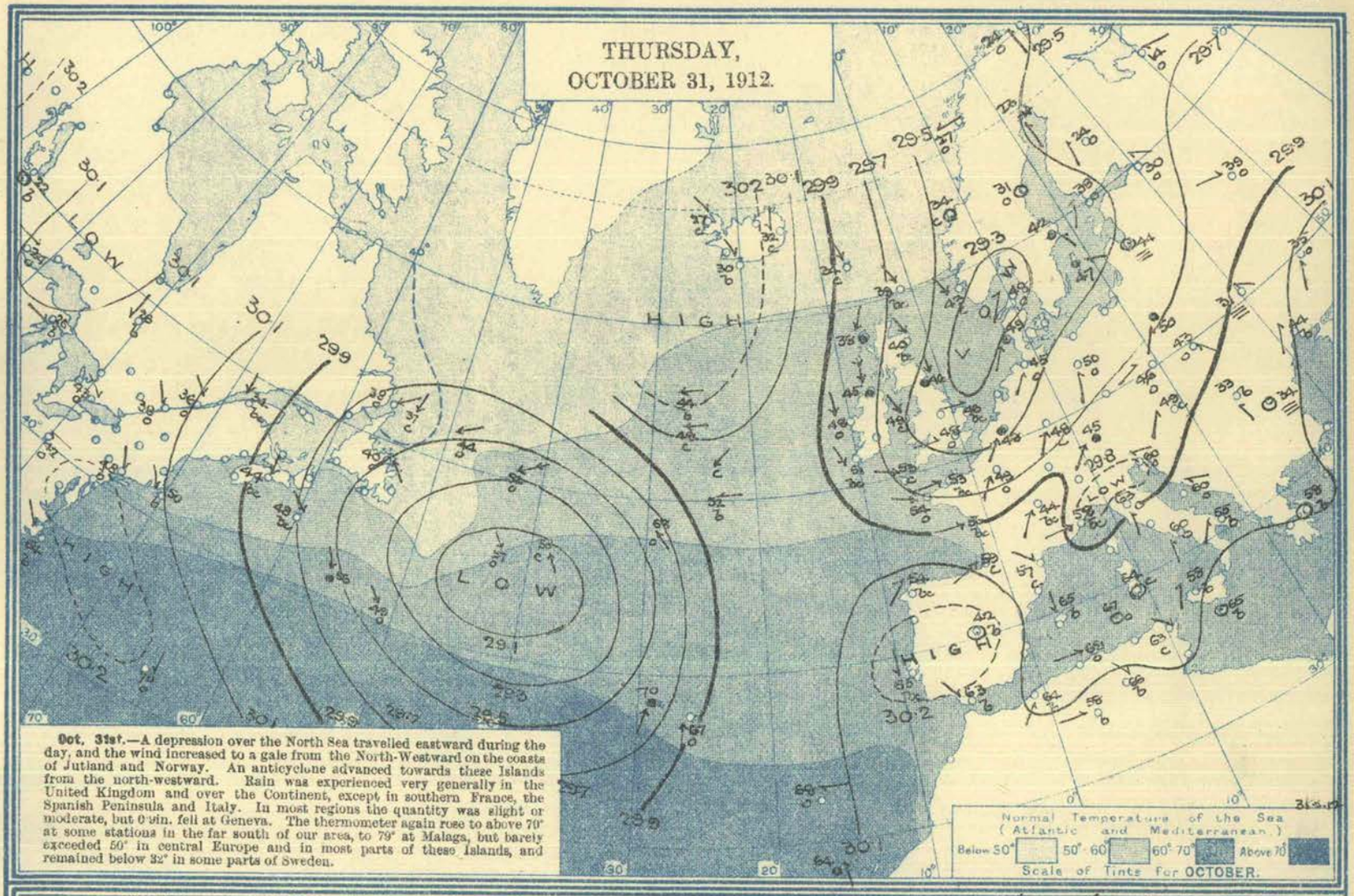


Oct. 29th.—Pressure increased over England and the Netherlands, decreased in Norway, and the wind rose to gale force from West over Denmark. Rain was general in the United Kingdom, most of France, and in the most northern countries of the Continent; about 0·5in. at some of our own stations, 1in. at Rochefort, and 1·2in. at Nancy. Thunderstorms occurred at Roche's Point and Pembroke, and at places in the S.E. of England. Temperature rose to 59° in some parts of England, to about 70° over a wide area in southern Europe, and to 82° at Algiers. At Vienna the maximum was only 43°, but in central Europe as a whole it was about 55°. At Carlsruhe a reading of 63° was reported.



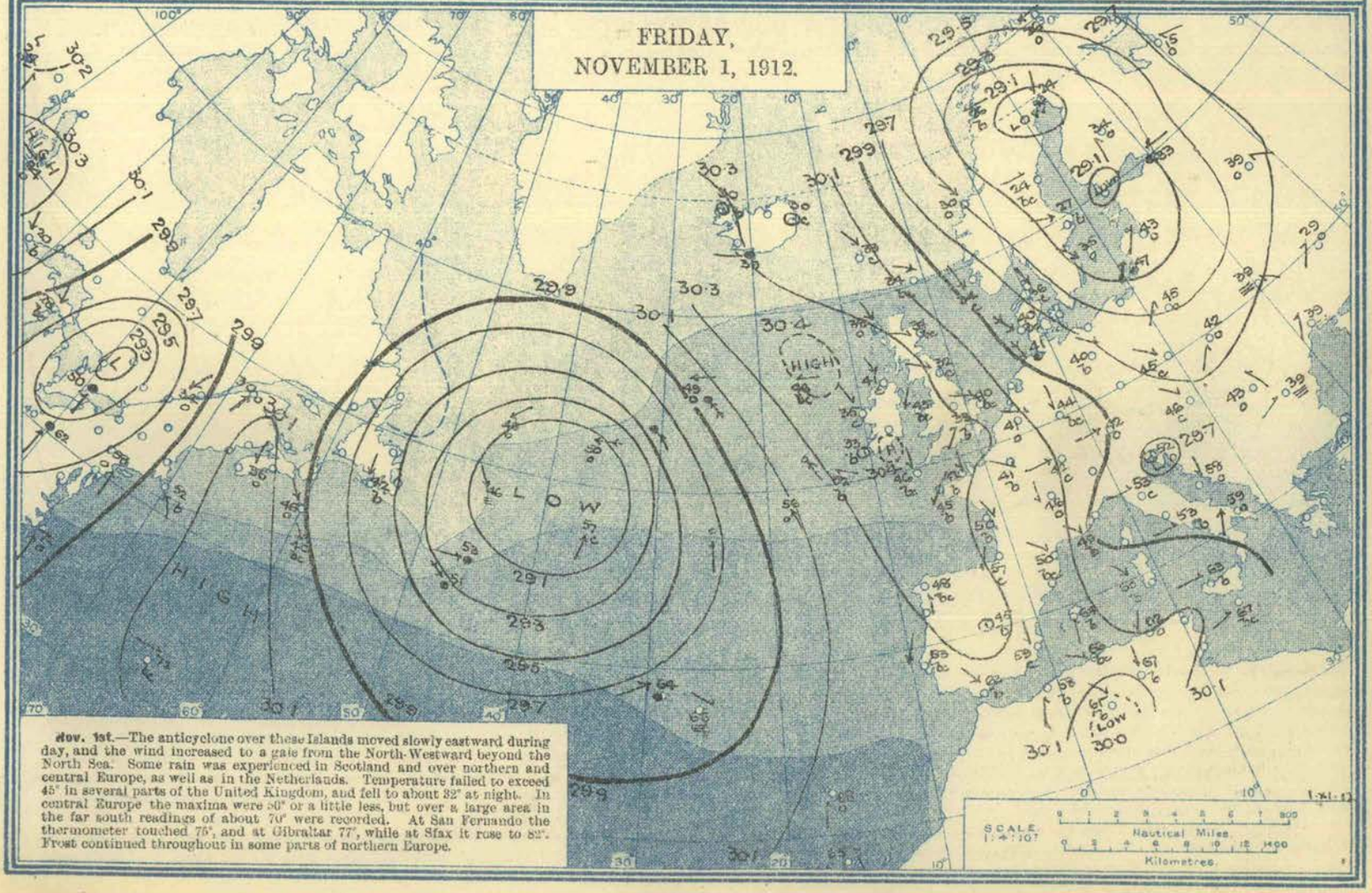
Oct. 30th.—A depression travelled slowly eastward over Ireland during day, and the South-Westerly wind increased to a gale on the Channel. Rain fell very generally in the United Kingdom, France, Switzerland, the Netherlands, and northern Europe, and thunderstorms occurred at some of our own stations and in the west of France. At Aberdeen and Balmoral the rain measurement was about 1·2in. In several parts of England the thermometer rose to 55°, and similar readings were recorded in the central countries of the Continent. Over southern Europe the maxima were about 70°, and on the coast of Algeria about 80°.

THURSDAY, OCTOBER 31, 1912.

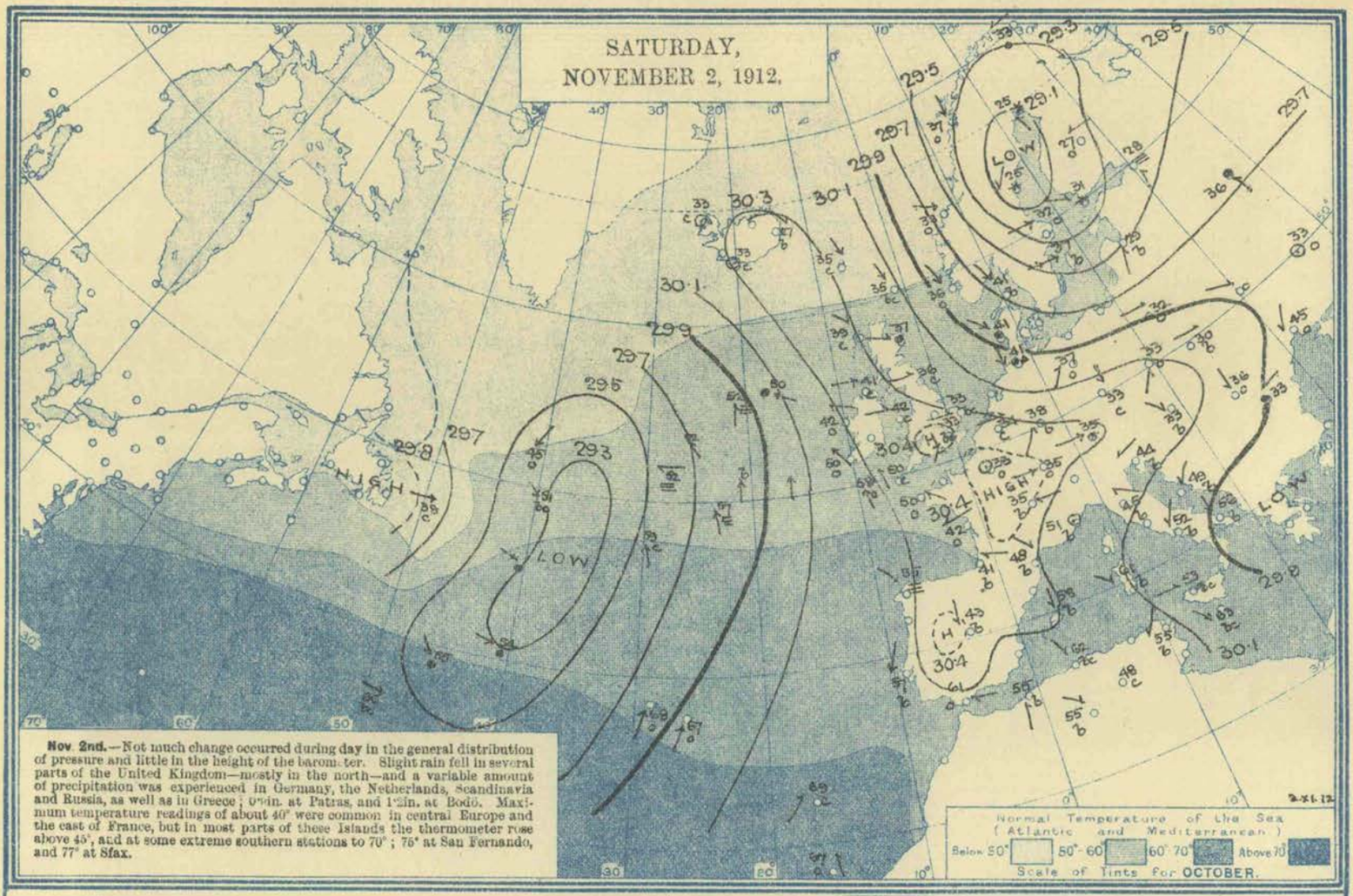


Oct. 31st.—A depression over the North Sea travelled eastward during the day, and the wind increased to a gale from the North-Westward on the coasts of Jutland and Norway. An anticyclone advanced towards these Islands from the north-westward. Rain was experienced very generally in the United Kingdom and over the Continent, except in southern France, the Spanish Peninsula and Italy. In most regions the quantity was slight or moderate, but 0·9in. fell at Geneva. The thermometer again rose to above 70° at some stations in the far south of our area, to 79° at Malaga, but barely exceeded 50° in central Europe and in most parts of these Islands, and remained below 32° in some parts of Sweden.

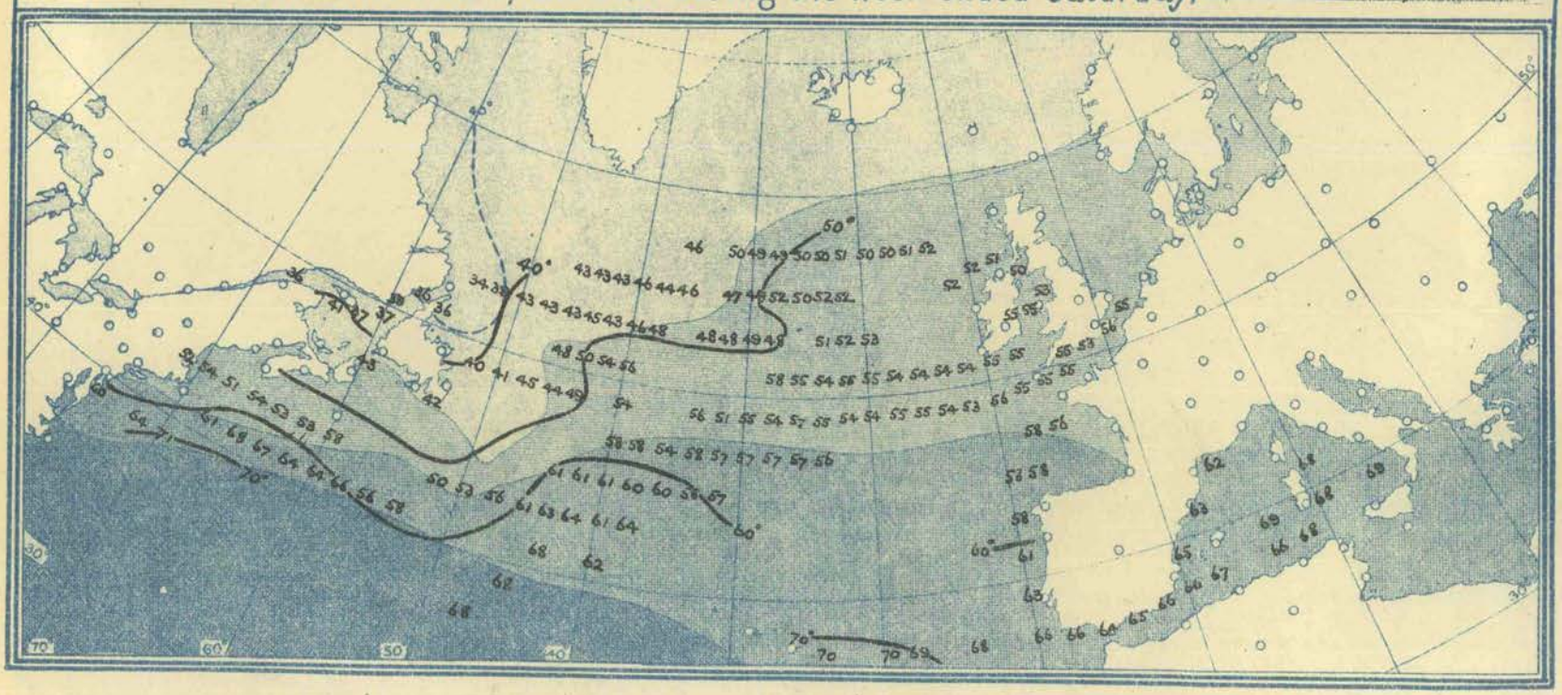
FRIDAY, NOVEMBER 1, 1912.



Nov. 1st.—The anticyclone over these Islands moved slowly eastward during day, and the wind increased to a gale from the North-Westward beyond the North Sea. Some rain was experienced in Scotland and over northern and central Europe, as well as in the Netherlands. Temperature failed to exceed 45° in several parts of the United Kingdom, and fell to about 32° at night. In central Europe the maxima were 50° or a little less, but over a large area in the far south readings of about 70° were recorded. At San Fernando the thermometer touched 75°, and at Gibraltar 77°, while at Sfax it rose to 82°. Frost continued throughout in some parts of northern Europe.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 2ND NOVEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟫⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; K = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) | No. 45. | FORTY-FIFTH WEEK, SUNDAY, NOVEMBER 3RD, TO SATURDAY, NOVEMBER 9TH, 1912. | *Price 6d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. Much cloud was experienced over the whole Kingdom, and during the earlier days of the week rain was very general. Subsequently, however, little rain fell except in the north and west of Scotland.

Temperature was above the average, the excess being more than 4° in Ireland, and more than 3° in the north-west of England and the west of Scotland. The highest of the maxima occurred at most stations on the 7th or 8th, and ranged from 64° in Ireland to 57° in Scotland West and England North-East, and to 55° in Scotland North. The lowest of the minima, which were recorded on the 3rd or 4th, varied from 22° in Scotland East, and 24° in England South-East to 33° in Ireland South, and to 40° in the English Channel. During the greater part of the week the minima were high for the time of year. The lowest grass readings were 13° at Birmingham, 16° at Hampstead, and 17° at Kew. In various parts of the Kingdom the temperature of the earth 1 foot below the surface was rather higher than the normal, but at 4 feet it was below it at all stations except Clacton-on-Sea and Canterbury.

Mean Temperature of the Sea did not differ greatly from the normal generally, but at Aberdeen and Cleggan it was nearly 2° above it, and at Newquay nearly 2° below it. In most places the water was a little warmer than during the corresponding week of last year. The mean values ranged from 54° at Plymouth to about 45·5° at Burnmouth and Kirkwall.

Rainfall exceeded the average in Scotland North and West and Ireland North, and, very slightly, in England North-West. Elsewhere it was below. More than an inch fell over a large area in the north-west on the 4th, the largest amounts reported being 1·4 in. at Douglas and 1·7 in. at Lancaster.

Bright Sunshine was much below the normal. The percentage of the possible duration ranged from 16 in the English Channel, and 14 in England South-West to 5 in the Midland Counties and Scotland West, and to less than 0·5 in Ireland North. In all districts except Scotland East, England South-West and the English Channel the mean daily duration was less than an hour. At West Linton and Armagh the week was sunless. Falmouth and Scilly had more than 2 hours per day.

Barometer and Wind. On Sunday the central portion of an anticyclone entirely covered the British Isles, but during Monday this receded to the Continent, and by Tuesday a shallow depression covered the North Sea and its neighbourhood. From this time the pressure distribution over these Islands was mainly of a South-Westerly to Westerly type, with the centres of large disturbances far away to the northward, and the northern boundary of an anticyclone extending over our southern districts from the Continent. The wind, which had previously been variable and light in force, consequently became South-Westerly to Westerly, and increased in strength on the most north-western and northern coasts.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 179.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Unusual	Unusual	Moderate	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate
	Rainfall ...	Heavy	Moderate	Moderate	Light	Light	Light	Moderate	Moderate	Light	Heavy	Light	Light
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Scanty	Very scanty	Very scanty	Scanty	Scanty	Very scanty	Very scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 10 weeks from Sept. 1st, 1912.	Warmth ...	0 * 6	2 * 4	2 * 4	0 * 5	2 * 4	0 * 6	2 * 5	2 * 6	1 * 5	3 * 4	2 * 3	0 * 6
	Rainfall ...	3 * 5	5 * 3	3 * 4	4 * 6	2 * 7	3 * 7	2 * 5	1 * 5	3 * 7	2 * 5	1 * 6	3 * 6
	Sunshine ...	3 * 7	2 * 7	2 * 3	2 * 4	1 * 3	3 * 3	1 * 4	4 * 4	4 * 4	3 * 3	1 * 4	4 * 4

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(27178—24.) Wt. 173—814. 450. 11/12. D & S. Gp. 30. Sch. 13.

District	Districts and Names of Stations reporting Temperature of Air and Rainfall	Temperature (°F): Highest observed	Date	Lowest observed	Date	Mean for the Week: Of Highest each day	Of Lowest each day	For whole of each day	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees): Above 42°	Below 42°	Grass Min.: Ground Frosts	Lowest Reading	Earth 1 ft.: Mean	Difference from Average	Earth 4 ft.: Mean	Difference from Average	Rainfall: No. of Rain-Days	Rainfall in the Week	Difference from Average	Bright Sunshine (Hours per Day): Daily Mean	Difference from Average	Percentage of possible duration	Difference from Average	Stations reporting Sunshine and Temperature on the Grass and in the Ground
		°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0, SCOTLAND, N.																									
a, Islands	p Baltasound .. S	50	6th	35	3rd	47·3	41·1	44·2	—	19	3	•	•	42·4	•	•	•	7	1·17	—	1·2	—	15	—	Baltasound.
	a Lerwick..	50	5, 6	33	3rd	48·0	40·9	44·5	+ 0·9	22	3	•	•	•	•	•	•	7	1·10	—	0·6	- 1·1	7	−13	Deerness.
	a Stornoway	52	7, 9	32	3rd	50·7	41·3	46·0	+ 2·1	31	2	•	•	•	•	•	•	7	1·31	- 0·02	1·3	- 0·5	16	- 6	Stornoway.
	a Castlebay, Barra Isd. .	52	7, 8, 9	40	3rd	51·4	45·6	48·5	+ 3·0	46	0	•	•	•	•	•	•	7	0·83	—	0·9	—	11	—	Castlebay.
b, Mainland.	a Wick	53	6th	33	4th	49·3	40·1	44·7	+ 1·3	27	5	•	•	•	•	•	•	7	0·87	+ 0·22	•	•	•	•	• •
	p Strathpeffer .. S	55	6th	30	3rd	51·7	40·9	46·3	+ 3·8	35	3	•	•	•	•	•	•	7	0·73	+ 0·08	0·4	- 1·6	5	−18	Strathpeffer.
	p Glencarron .. S	52	9th	31	3rd	49·3	40·8	45·1	+ 2·9	27	3	•	•	•	•	•	•	7	3·51	+ 1·41	•	•	•	•	• •
	p Fort Augustus.. S	53	5, 7, 8	32	3rd	51·0	42·6	46·8	+ 3·6	34	0	•	•	•	•	•	•	7	1·17	+ 0·18	0·5	- 0·6	6	- 8	Fort Augustus.
	p Fort William .. S	53	5, 7	31	3rd	50·3	42·7	46·5	+ 2·8	32	0	•	•	•	•	•	•	7	2·53	+ 0·70	•	•	•	•	• •
1. SCOTLAND, E.												3	16	43·1	−0·4	45·6	−2·4	—	—	—	0·8	—	9	—	Crathes S.
	p Gordon Castle.. S	58	6th	29	4th	52·4	40·0	46·2	+ 2·8	38	6	•	•	•	•	•	•	5	0·66	- 0·02	0·6	—	7	—	Gordon Castle.
	a Nairn	56	7th	26	4th	51·3	39·6	45·5	+ 2·7	35	7	•	•	•	•	•	•	6	0·71	+ 0·23	1·0	—	12	—	Nairn.
	a Aberdeen	56	6th	29	4th	50·9	39·1	45·0	+ 1·4	33	8	•	•	•	•	46·0	−1·3	5	0·60	- 0·08	0·7	- 1·5	8	−18	Aberdeen.
	a Balmoral .. S	59	6th	22	4th	54·0	34·9	44·5	+ 4·5	47	20	3	18	•	•	•	•	3	0·24	- 0·66	•	•	•	•	Balmoral.
	p Crieff .. .. S	56	6th	33	3rd	51·4	40·3	45·9	+ 2·9	34	5	•	•	•	•	•	•	5	0·55	- 0·45	2·0	—	23	—	Balruddery.
	a Leith	59	7th	37	3, 4	53·0	44·0	48·5	+ 3·7	46	0	•	•	•	•	•	•	5	0·28	- 0·17	•	•	•	•	• •
	p West Linton .. S	54	5, 7, 8	31	3rd	50·3	40·3	45·3	+ 3·8	30	5	2	29	•	•	•	•	5	0·74	—	0·0	—	0	—	West Linton.
	p Marchmont .. S	54	8th	33	3rd	50·9	39·9	45·4	+ 3·1	33	6	1	29	42·4	+0·1	•	•	5	0·32	- 0·44	0·9	- 1·1	11	−13	Marchmont.
2. ENGLAND, N.E.																									
a, North	a Alnwick Castle ..	57	7th	29	4th	52·4	41·3	46·9	+ 2·9	37	2	2	24	43·7	+1·8	45·5	−0·9	5	0·52	- 0·26	0·4	—	5	—	Cockle Park.
	a Shields	57	7th	33	3, 4	52·7	41·6	47·2	+ 2·5	38	1	•	•	•	•	•	•	5	0·39	- 0·18	•	•	•	•	Newcastle.
	p Durham..	54	6, 7, 8	31	4th	51·9	42·6	47·3	+ 3·7	37	0	2	27	•	•	•	•	5	0·24	- 0·36	1·3	- 0·8	15	- 9	Durham.
	p Rounton..	55	8th	30	3rd	51·3	42·3	46·8	+ 3·4	34	0	2	24	44·2	•	•	•	5	0·64	0·00	•	•	•	•	Rounton.
	a West Witton	55	7th	30	4th	51·4	42·3	46·9	—	34	0	1	28	43·8	•	46·1	•	5	0·30	—	•	•	•	•	West Witton.
	p Scarborough	56	8th	35	4, 5, 6	51·2	40·5	45·9	+ 0·5	34	4	•	•	•	•	48·6†	•	6	0·39	- 0·23	0·2	—	2	—	Scarborough.
	p York	56	6, 7, 8	33	4th	53·0	43·9	48·5	+ 4·1	46	0	•	•	45·9	−1·0	49·1	−1·6	4	0·55	+ 0·04	1·0	- 0·7	11	- 8	York.
b South	a Spurn Head	53	7, 8, 9	36	3rd	50·0	42·0	46·0	0·0	28	0	2	21	44·6	−0·1	49·0	−1·7	3	0·29	- 0·15	0·4	—	5	—	Hull.
	a Lincoln	55	8th	33	4th	51·4	42·4	46·9	+ 2·7	34	0	•	•	43·2	−2·2	48·0	−2·5	2	0·31	- 0·15	•	•	•	•	Lincoln.
	a Fulbeck	55	7, 8	27	4th	51·4	40·7	46·1	+ 2·1	34	4	2	18	45·6	+0·3	49·6	−1·6	3	0·39	- 0·08	0·6	—	7	—	Rauceby.
												•	•	•	•	•	•	—	—	—	0·8	—	9	—	Skegness.
3. ENGLAND, E.												2	27	46·0	−0·7	50·1	−1·5	—	—	—	0·9	—	10	—	Lowestoft.
a, North	p Cromer	57	8th	34	4th	50·3	40·4	45·4	+ 1·6	31	4	•	•	•	•	•	•	3	0·18	—	0·1	—	1	—	Cromer.
	p Little Massingham ..	56	8th	31	4th	50·3	42·1	46·2	+ 0·9	29	0	2	24	•	•	•	•	2	0·45	—	0·8	•	9	•	Little Massingham
	a Yarmouth	58	8th	32	3, 4	51·1	38·6	44·9	- 0·6	35	10	•	•	48·4?	+3·3?	50·0	−1·7	3	0·24	- 0·34	0·7	—	8	—	Yarmouth.
	a Norwich	58	8th	29	4th	50·9	41·1	46·0	+ 1·8	32	3	2	21	44·6	•	•	•	2	0·14	—	0·3	—	3	—	Norwich.
	p Geldeston	59	8th	29	4th	51·9	41·7	46·8	+ 1·4	35	1	•	•	•	•	•	•	3	0·14	- 0·42	0·6	- 1·8	7	−20	Geldeston.
b, South	p Cambridge	58	8th	28	4th	52·0	41·7	46·9	+ 2·1	36	1	2	22	45·7	−0·3	50·2	−1·3	3	0·31	- 0·17	0·7	- 1·7	8	−18	Cambridge.
	a Felixstowe	58	8th	32	4th	51·1	42·3	46·7	+ 0·3	33	0	•	•	•	•	•	•	3	0·23	—	1·7	—	19	—	Felixstowe.
	a Clacton-on-Sea ..	59	8th	32	4th	51·1	42·0	46·6	+ 0·4	32	0	2	25	46·6	−2·7	54·1	+1·7	2	0·32	—	2·0	—	22	—	Clacton.
	a Rothamsted	58	8th	26	4th	52·9	40·2	46·6	+ 2·6	40	5	•	•	•	•	•	•	4	0·35	- 0·30	1·3	- 1·1	14	−12	Rothamsted.
	a Shoeburyness	55	8, 9	30	4th	51·3	42·0	46·7	0·0	33	0	2	21	47·1	−1·1	•	•	2	0·22	- 0·23	1·3	—	14	—	Southend.
	p Tottenham	55	7, 8	32	3, 4	52·0	44·3	48·2	+ 2·8	43	0	2	24	•	•	51·2	−1·9	2	0·18	—	0·7	—	8	—	Tottenham.
4. MIDLAND COUNTIES.												2	26	43·8	0·0	47·7	−1·7	—	—	—	0·4	—	4	—	Huddersfield.
a East	a Harrogate	54	6, 7, 8	34	4th	51·0	43·4	47·2	+ 3·7	36	0	2	25	44·6	−0·8	46·3	−1·4	5	0·14	- 0·53	0·6	—	7	—	Harrogate.
	a Bawtry	58	7th	29	4th	52·3	42·7	47·5	+ 3·2	39	0	2	21	44·9	•	47·5	•	3	0·31	- 0·12	0·4	- 1·5	4	−16	Worksop.
	p Buxton	53	7th	27	4th	48·9	40·7	44·8	+ 3·1	25	4	2	22	44·1	+0·5	47·9	−1·5	4	0·76	- 0·44	0·4	—	4	—	Buxton.
	a Nottingham	56	8th	27	4th	52·3	40·1	46·2	+ 1·5	37	5	2	24	44·3	0·0	47·4	−2·3	2	0·33	- 0·14	0·2	—	2	—	Nottingham.
	p Birmingham, Edgbsn.	56	8th	32	3rd	50·4	43·0	46·7	+ 3·2	33	0	2	13	45·4	0·0	48·9	−1·0	2	0·22	- 0·33	0·3	—	3	—	Birmingham.
	a Raunds	60	8th	26	4th	52·4	39·3	45·9	+ 1·9	39	8	2	22	45·1	•	51·6	•	2	0·42	—	•	•	•	•	Raunds.
	a Oxford	56	9th	28	3rd	52·3	41·9	47·1	+ 2·1	36	0	2	22	•	•	•	•	3	0·25	- 0·31	0·6	- 1·7	7	−18	Oxford.
												1	25	45·0	−0·4	48·4	−1·6	—	—	—	0·8	—	9	—	Sheffield.
b, West	a Cheadle	55	7th	34	3rd	50·4	42·3	46·4	+ 2·9	31	0	1	26	•	•	•	•	2	0·54	- 0·12	•	•	•	•	Cheadle.
	p Shrewsbury	57	7, 8	25	3rd	52·1	44·0	48·1	+ 3·1	43	0	1	24	•	•	•	•	2	0·11	—	•	•	•	•	Shrewsbury.
	a Hereford	59	8th	32	4th	53·6	43·1	48·4	+ 3·7	45	0	1	30	•	•	•	•	2	0·29	- 0·27	•	•	•	•	Hereford.
	a Cirencester	54	9th	29	3rd	51·3	41·6	46·5	+ 3·1	33	1	1	27	46·1	•	49·0	•	3	0·29	- 0·38	0·6	- 1·7	7	−18	Cirencester.
	a Bath	59	9th	29	3rd	54·9	42·7	48·8	+ 2·8	48	0	•	•	47·6	−0·7	52·0	−1·4	3	0·22	- 0·47	0·2	—	2	—	Bath.
5. ENGLAND, S.E.												2	23	45·1	−1·6	51·3	+0·4	—	—	—	•	•	•	•	Canterbury.
	p Kew	56	7, 9	28	4th	52·3	43·1	47·7	+ 2·3	40	0	2	17	45·9	−0·2	50·2	−1·5	2	0·21	- 0·33	0·8	- 1·2	9	−13	Kew.
	a Marlborough	56	7th	26	3rd	52·1	42·3	47·2	+ 3·5	36	0	1	20	•	•	50·0	•	3	0·27	- 0·50	0·2	- 2·0	2	−21	Marlborough.
	a Margate	55	8, 9	34	4th	51·3	42·6	47·0	0·0	35	0	•	•	46·9	+0·4	50·1	−1·1	2	0·30	- 0·30	1·5	- 1·0	17	−10	Margate.
	a Wisley, Surrey ..	56	7th	26	3rd	52·6	41·7	47·2	+ 1·1	38	1	2	18	46·0	0·0	49·6	−1·7	2	0·27	—	0·7	—	8	—	Wisley
	a Swarraton	56	7th	24	3rd	51·6	41·6	46·6	+ 2·2	34	1	1	26	47·6	+0·4	51·7	−1·3	3	0·25	- 0·52	0·4	—	4	—	Worthing.
	a Tunbridge Wells ..	54	9th	28	3rd	50·4	40·3	45·4	+ 0·3	31	5	2	24	45·4	0·0	•	•	5	0·35	- 0·43	1·0	- 1·5	11	−17	Tunbridge Wells.
	a Dungeness	55	8th	30	3rd	51·7	41·6	46·7	- 1·1	35	1	•	•	•	•	•	•	1	0·41	- 0·21	1·2	—	13	—	Littlestone.
	p Hastings..	58	7th	34	3rd	52·0	44·4	48·2	+ 0·7	43	0	2	28	46·7	•	51·5	•	2	0·40	- 0·36	1·0	- 1·8	11	−19	Hastings.
	p Southampton	58	7th	31	3rd	53·4	45·0	49·2	+ 2·1	50	0	1	26	•	•	•	•	3	0·04	- 0·73	0·8	- 1·7	9	−19	Southampton
	a Ventnor	57	7th	36	3rd	54·1	46·9	50·5	+ 1·6	60	0	•	•	•	•	•	•	3	0·16	- 0·47	0·5	- 2·3	5	−24	Ventnor.
												1	26	48·4	+0·5	51·1	−2·1	—	—	—	0·9	—	10	—	Portsmouth.
												•	•	48·3	•	52·3	•	—	—	—	0·7	- 1·9	8	−21	Eastbourne.
												•	•	48·1	•	49·7	•	—	—	—	1·1	—	12	—	Bournemouth.
LONDON.												1	29	•	•	52·0	•	—	—	—	0·2	- 2·5	2	−27	Brighton.
	a Westminster	57	7th	30	3rd	53·0	42·9	48·0	+ 2·5	42	0	2	27	•	•	•	•	2	0·17	- 0·37	0·2	- 1·0	2	−11	Westminster.
	a Greenwich	57	7th	29	3, 4	52·1	42·0	47·1	+ 1·7	36	0	2	23	•	•	•	•	2	0·18	- 0·37	0·5	- 1·4	6	−15	Greenwich.
	a Hampstead	55	7th	31	3rd	51·1	43·1	47·1	—	36	0	2	16	•	•	•	•	2	0·21	—	1·1	—	12	—	Hampstead.
	a Camden Square ..	56	7, 8, 9	28	3rd	53·0	42·1	47·6	—	39	0	2	25	•	•	•	•	2	0·19	—	0·6	—	7	—	Camden Square
6. a, SCOTLAND, W.																									
	a Poltalloch .. S	53	7th	36	3rd	51·0	45·1	48·1	+ 3·5	43	0	•	•	•	•	•	•	7	1·97	+ 0·75	•	•	•	•	• •
	p Glasgow	55	5, 7	38	3rd	51·9	45·1	48·5	+ 4·5	46	0	0	33	•	•	•	•	4	0·95	+ 0·13	0·1	- 1·2	1	−14	Glasgow.
	p Rothesay .. S	55	5, 7, 9	39	3rd	52·7	45·6	49·2	+ 4·5	50	0	•	•	•	•	47·4	−0·9	7	1·73	+ 0·69	•	•	•	•	• •
	a Kilmarnock	56	5th	36	3rd	52·4	45·1	48·8	+ 5·2	48	0	•	•	•	•	•	•	5	1·13	—	0·0	—	0	—	Kilmarnock.
	a Colmonell .. S	57	7th	32	3rd	53·0	44·4	48·7	+ 5·0	47	0	1	30	•	•	•	•	4	1·40	+ 0·22	•	•	•	•	• •
	p Dumfries .. S	56	8th	35	3rd	52·0	43·1	47·6	+ 3·5	39	0	2	27	45·0	•	47·4	•	4	0·80	- 0·09	0·1	—	1	—	Dumfries.
	p Cally, Gatehouse S	54	6, 8	34	3rd	52·0	42·1	47·1	+ 3·2	36	0	•	•	•	•	•	•	6	2·20	+ 0·97	•	•	•	•	• •
b I. OF MAN.																									
	p Douglas	54	5, 7, 8	36	3rd	51·9	46·0	49·0	+ 2·8	49	0	1	28	•	•	•	•	7	2·04	+ 0·96	0·7	- 1·7	8	−19	Douglas.
7. a, ENGLAND, N.W.												2	23	44·0	+0·6	47·4	−1·5	—	—	—	0·2	—	2	—	Burnley.
												1	26	•	•	•	•	—	—	—	1·9	—	21	—	Hoylake.
	p Aspatria..	55	5, 8	35	3rd	51·9	44·6	48·3	+ 4·3	44	0	1	30	46·2	•	48·7	•	4	2·05	+ 1·08	0·2	—	2	—	Aspatria.
	p Newton Rigg	55	7, 8	32	3rd	51·7	42·4	47·1	+ 4·6	36	0	2	18	44·8	−0·6	46·8	−1·8	4	0·81	- 0·03	0·8	- 1·2	9	−13	Newton Rigg.
	p Stonyhurst	59	7th	33	4th	51·3	43·6	47·5	+ 3·7	39	0	2	26	•	•	•	•	6	1·57	+ 0·53	0·3	- 1·6	3	−18	Stonyhurst.
	p Blackpool	58	7th	34	4th	52·6	45·0	48·8	+ 3·0	48	0	1	23	47·0	•	49·6	•	6	0·86	+ 0·01	1·2	- 0·8	14	- 9	Blackpool.
	p Manchester (Whit. Pk.)	59	7th	34	3, 4	53·3	44·7	49·0	—	49	0	2	24	•	•	•	•	5	0·76	—	0·3	—	3	—	Whit. Park.
	a Liverpool (Bidston) ..	59	7th	35	3rd	52·7	44·4	48·6	+ 3·3	46	0	•	•	•	•	•	•	3	0·42	- 0·23	1·9	—	21	—	Liverpool.
	a Hawarden Bridge ..	61	7th	30	3rd	54·9	44·9	49·9	+ 3·4	55	0	1	24	45·5	+1·3	47·5	−1·6	3	0·08	- 0·49	1·2	- 0·6	14	- 7	Southport.
												2	28	46·3	+1·3	49·2	−2·2	—	—	—	0·2	—	2	—	Manchester City).
b, NORTH WALES.																									
	p Llandudno	56	7, 8	34	3rd	53·4	45·3	49·4	+ 1·9	52	0	•	•	•	•	•	•	3	0·45	- 0·30	1·3	- 0·8	14	- 9	Llandudno.
	a Holyhead	54	6, 7, 8	36	3rd	53·3	46·1	49·7	+ 1·9	54	0	•	•	•	•	•	•	6	1·25	+ 0·31	0·7	—	8	—	Aberdovey.
	p Bettws-y-Coed ..	60	4th	37	3rd	54·4	45·4	49·9	+ 2·5	55	0	1	27	46·4	+1·9	48·4	−1·1	3	0·54	—	1·1	—	12	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	**Temperature.** In Degrees Fahrenheit.															**Rainfall.**			**Bright Sunshine.** Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																	*	*	*	0·7	—	8	—	Aberystwyth.
a Llangammarch Wells	55	5th	25	3rd	52·4	41·0	46·7	+ 3·1	37	3	1	24	46·0	−0·1	49·1	−1·8	6	0·46	—	0·6	—	7	—	Llangammarch
a Pembroke	55	5, 9	41	3rd	53·9	47·6	50·8	+ 1·9	62	0	*	*	*	*	*	*	6	0·74	- 0·16	0·5	- 1·9	6	-21	Pembroke.[Wells
p Cardiff	57	5, 9	39	3rd	53·1	45·4	49·3	+ 4·0	51	0	0	34	47·3	+1·8	50·2	-1·1	5	0·42	- 0·56	*0·8*	—	*9*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	57	9th	38	3rd	53·9	46·0	50·0	+ 4·0	56	0	0	31	*	*	*	*	3	0·24	- 0·53	*0·5*	—	*6*	—	*Clifton.*
a Shaftesbury	55	7th	36	3rd	51·1	42·6	46·9	+ 1·9	34	0	*	*	47·1	*	50·6	*	3	0·29	- 0·51	*	*	*	*	Shaftesbury.
a Arlington	53	7th	37	3rd	51·4	43·9	47·7	+ 2·1	40	0	*	*	50·1	*	*	*	3	0·87	- 0·51	1·8	- 1·0	19	-11	Newquay.
a Cullompton	60	9th	33	4th	53·9	42·0	48·0	+ 2·9	42	0	1	30	48·1	*	*	*	3	0·27	- 0·57	1·0	- 1·2	11	-13	Cullompton.
a Portland	58	4th	40	3rd	55·0	48·3	51·7	+ 2·7	68	0	*	*	*	*	*	*	2	0·37	—	*1·2*	—	*13*	—	*Weymouth.*
p Plymouth	58	9th	39	4th	55·2	47·7	51·5	+ 3·1	67	0	1	29	49·6	+0·3	*	*	4	0·43	- 0·44	1·7	- 0·9	18	- 9	Plymouth.
p Falmouth	56	8th	43	4th	54·3	47·4	50·9	+ 1·7	62	0	*	*	*	*	*	*	3	0·42	- 0·70	2·3	- 0·6	25	- 7	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	55	7th	39	3, 4	52·1	44·7	48·4	+ 2·1	45	0	*	*	*	*	*	*	5	0·38	- 0·36	*	*	*	*	* *
a Blacksod Point ..	56	4, 7	40	3rd	54·1	47·6	50·9	+ 3·4	62	0	*	*	*	*	*	*	6	2·72	+ 1·52	*	*	*	*	* *
p Markree Castle ..	57	7th	38	3rd	54·6	46·0	50·3	+ 5·8	58	0	0	33	48·4	*	49·5	*	4	2·03	+ 1·06	0·1	- 2·0	1	-23	Markree Castle.
a Birr Castle	64	7th	33	3, 4	55·0	42·9	49·0	+ 4·4	49	0	*	*	*	*	*	*	5	0·43	- 0·32	*0·7*	- *1·7*	*8*	*-19*	*Birr Castle.*
b, East .. { *p* Armagh	57	7th	29	3rd	53·4	44·9	49·2	+ 4·6	50	0	1	20	47·0	+1·0	48·9	-1·5	5	1·18	+ 0·52	0·0	- 2·2	0	-25	Armagh.
a Donaghadee	57	7th	34	3rd	52·9	44·7	48·8	+ 2·8	48	0	*	*	*	*	*	*	4	1·09	+ 0·38	*	*	*	*	* *
											1	22	47·2	+0·3	48·9	-1·8	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											1	20	*	*	*	*	—	—	—	0·8	- 1·9	9	-21	Phœnix Park.
a, East .. { *p* Dublin, City	64	7th	34	3rd	55·3	46·6	51·0	+ 4·2	63	0	0	31	*	*	*	*	2	0·37	- 0·28	*	*	*	*	Dublin City.
a Kilkenny	62	7th	33	3rd	55·1	44·7	49·9	+ 4·9	55	0	*	*	*	*	*	*	6	0·30	- 0·44	*	*	*	*	* *
a Waterford	55	4, 6, 8	39	3rd	54·0	47·4	50·7	+ 4·2	61	0	*	*	*	*	*	*	2	0·42	- 0·50	*	*	*	*	* *
b, West .. { *a* Birr Castle	64	7th	33	3, 4	55·0	42·9	49·0	+ 4·4	49	0	*	*	*	*	*	*	5	0·43	- 0·32	0·7	- 1·7	8	-19	Birr Castle.
a Foynes	61	7th	41	3rd	56·6	47·7	52·2	+ 5·7	71	0	*	*	*	*	*	*	7	0·59	- 0·33	*	*	*	*	* *
a Cahir	56	7th	37	3rd	53·9	46·1	50·0	+ 3·7	56	0	*	*	*	*	*	*	4	0·56	—	*	*	*	*	* *
a Killarney	62	8th	47	3, 6	57·7	49·3	53·5	+ 6·6	81	0	*	*	*	*	*	*	3	0·51	- 0·83	*	*	*	*	* *
a Valencia	56	3, 4, 6, 7	49	3, 6, 7	55·3	50·1	52·7	+ 3·9	75	0	*	*	*	*	*	*	7	0·65	- 0·65	0·7	- 1·8	8	-20	Valencia.
a Roche's Point	55	6th	49	3, 6	54·0	50·3	52·2	+ 3·8	71	0	*	*	*	*	*	*	5	0·70	- 0·29	0·1	*	1	*	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	57	8th	48	3rd	55·0	49·4	52·2	+ 1·2	71	0	*	*	*	*	*	*	4	0·30	- 0·50	2·2	- 0·7	24	- 7	Scilly.
a Jersey, St. Aubins ..	57	5, 8, 9	40	3, 4	55·0	44·3	49·7	- 0·6	54	0	*	*	*	*	*	*	3	0·48	- 0·45	0·9	- 2·1	10	-22	St. Heliers.
a Guernsey (Villa Carey)	58	9th	42	4th	55·2	47·6	51·3	+ 0·9	65	0	0	34	50·7	-0·1	53·6	-1·2	3	0·47	- 0·57	1·4	- 1·1	15	-12	Guernsey.*

Additional Sunshine Means:—*Bognor, 0·3 hrs. 3 %; Ramsgate, 1·7 hrs. 19 %; Rhyl, 1·7 hrs. 19 %; Salcombe, 2·2 hrs. 24 %; Tenby, 0·9 hrs. (−1·6) 10 % (− 18 %); Torquay, 1·7 hrs. (−0·8) 18 % (−9 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 9th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick..	47	46	46·2	-1·6	SCOTLAND, W. ..	Lamlash	51	47	50·0	0·0
	Kirkwall	47	40	45·4	0·0		Ballantrae	50	47	48·2	+1·0
	Wick	49	48	48·5	-1·5	ENGLAND, N.W. ..	Port Erin	53	52	52·3	+0·6
	Cromarty	48	44	46·2	+0·1		Newquay	52	52	52·0	-1·9
SCOTLAND, E. ..	Pennan Bay	47	47	47·0	+1·2	ENGLAND, S.W. ..	Scilly	—	—	—	—
	Aberdeen, Cove Bay	50	49	49·6	+1·9		Plymouth‡	55	53	54·0	-0·5
ENGLAND, N.E. ..	Burnmouth, Berwick	46	45	45·7	-1·6		Salcombe	55	50	53·5	-0·1
	Scarborough	49	46	47·2	-0·9	IRELAND, N.W. ..	Sheephaven	52	45	49·5	-0·1
ENGLAND, E. ..	Shipwash Lightship	53	50	50·9	-1·0		Teelin	53	46	49·3	+0·1
	Margate‡	50	47	48·9	-1·4	IRELAND, S.W. ..	Cleggan	51	49	50·2	+1·8
ENGLAND, S.E. ..	Eastbourne‡	51	50	50·6	-1·0		Seafield	54	48	51·6	+0·9
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881–1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

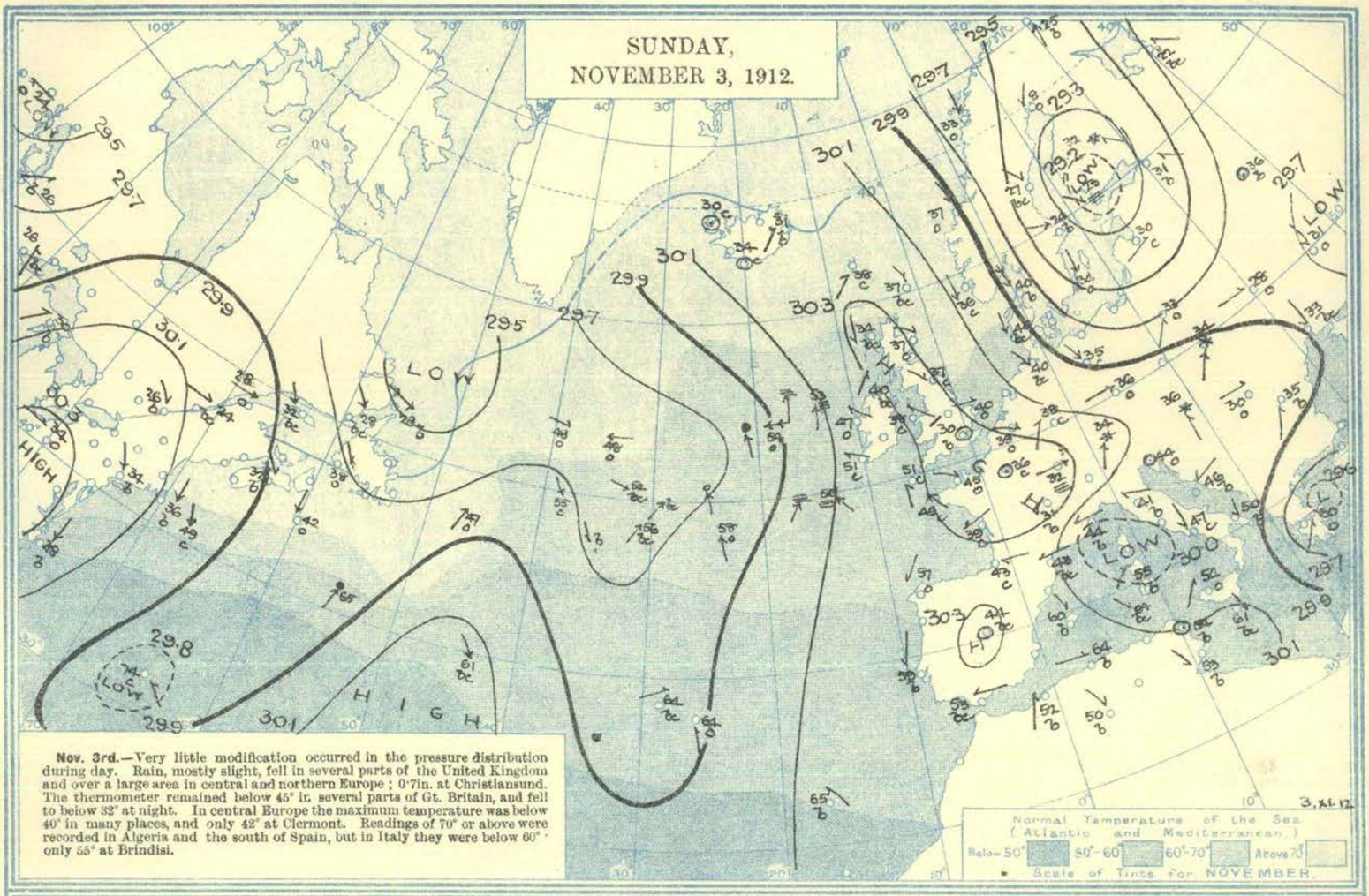
FORTY-FIFTH WEEK—November 3rd to November 9th 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	55	30	50·0	41·3	45·7	+ 2·2	29	+ 5	2	−10	7	+ 2	1·60	+0·34	0·7	−0·7	8	− 8
Eastern.																		
1. SCOTLAND, EAST ...	59	22	51·8	39·8	45·8	+ 3·0	36	+ 12	6	−11	5	+ 1	0·51	−0·25	1·1	−0·8	13	−10
2. ENGLAND, N.E.	57	27	51·7	41·9	46·8	+ 2·2	34	+ 5	0	−10	4	0	0·41	−0·17	0·7	−1·2	8	−14
3. ENGLAND, EAST ...	59	26	51·5	41·3	46·4	+ 1·3	34	+ 1	2	− 9	3	− 1	0·23	−0·30	0·9	−1·6	10	−17
4. MIDLAND COUNTIES ...	60	25	52·1	42·2	47·2	+ 2·9	36	+ 5	0	−13	3	− 1	0·28	−0·35	0·5	−1·5	5	−16
5. ENGLAND, S.E.	58	24	52·2	43·0	47·6	+ 0·7	39	− 2	0	− 7	3	− 1	0·26	−0·51	0·8	−1·5	9	−16
Western.																		
6. SCOTLAND, WEST ...	57	32	52·1	44·6	48·4	+ 3·5	45	+ 15	0	− 8	6	+ 1	1·53	+0·21	0·4	−1·3	5	−15
7. ENGLAND, N.W.	61	30	52·9	44·6	48·8	+ 3·1	48	+ 15	0	− 7	4	− 1	0·89	+0·02	0·9	−0·8	10	− 9
8. ENGLAND, S.W.	60	25	53·4	45·2	49·4	+ 2·0	52	+ 12	0	− 5	4	− 1	0·45	−0·63	1·2	−1·0	14	−11
9. IRELAND, NORTH ...	64	29	53·7	45·1	49·4	+ 4·1	52	+ 20	0	− 8	5	0	1·31	+0·35	0·1	−2·1	0	−24
10. IRELAND, SOUTH ...	64	33	55·2	47·2	51·2	+ 4·4	64	+ 23	0	− 7	5	0	0·50	−0·53	0·6	−1·8	6	−20
11. ENGLISH CHANNEL ...	58	40	55·0	47·1	51·1	+ 0·3	64	+ 2	0	0	3	− 2	0·42	−0·57	1·5	−1·2	16	−13
	THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 10 Weeks, September 1st to November 9th, 1912.																	
0. SCOTLAND, NORTH ...	66	28	*	*	*	*	391	− 86	26	−29	46	− 4	9·79	−1·89	2·6	−0·1	24	− 1
Eastern.																		
1. SCOTLAND, EAST ...	72	21	*	*	*	*	429	− 80	82	+10	36	− 5	7·30	+0·77	2·5	−0·5	24	− 5
2. ENGLAND, N.E.	70	27	*	*	*	*	505	− 96	26	− 7	32	− 5	4·75	−0·96	3·2	−0·3	29	− 2
3. ENGLAND, EAST ...	69	26	*	*	*	*	578	−109	38	− 1	30	− 6	4·70	−0·70	3·7	−0·2	33	− 2
4. MIDLAND COUNTIES ...	70	25	*	*	*	*	533	− 95	62	+12	22	−14	4·36	−1·42	3·1	−0·3	27	− 3
5. ENGLAND, S.E.	68	24	*	*	*	*	592	−176	27	+ 2	25	−10	6·18	−0·42	4·1	+0·2	36	+ 1
Western.																		
6. SCOTLAND, WEST ...	67	22	*	*	*	*	490	− 79	38	0	37	− 5	9·02	−1·83	3·0	−0·2	27	− 2
7. ENGLAND, N.W.	66	26	*	*	*	*	536	−107	21	− 3	31	− 9	6·54	−1·57	3·3	+0·1	29	0
8. ENGLAND, S.W.	72	21	*	*	*	*	600	−131	13	− 5	28	−13	6·65	−2·46	3·8	+0·1	34	0
9. IRELAND, NORTH ...	67	21	*	*	*	*	554	− 43	23	− 6	33	−13	5·31	−3·00	2·9	−0·2	27	− 2
10. IRELAND, SOUTH ...	72	21	*	*	*	*	636	− 49	17	− 8	35	− 6	4·67	−3·41	3·4	−0·2	30	− 2
11. ENGLISH CHANNEL ...	68	36	*	*	*	*	825	−112	0	0	31	−13	7·00	−0·90	4·6	0·0	41	0
	THE YEAR.—Aggregates, &c., for the Period of 45 Weeks, December 31st, 1911, to November 9th, 1912.																	
0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1877	−154	453	−159	206	− 4	40·44	− 2·65	3·1	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2098	−181	601	− 91	183	+ 9	28·04	+ 1·94	3·1	−0·9	24	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	2496	− 55	399	−109	176	+19	27·27	+ 6·10	3·4	−1·0	27	− 8
3. ENGLAND, EAST ...	91	14	*	*	*	*	3012	+ 65	312	−248	164	+12	25·17	+ 4·86	4·2	−0·6	33	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2757	−107	435	−148	158	+ 7	29·77	+ 7·23	3·4	−0·8	27	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	3037	−150	245	−161	154	+ 9	27·54	+ 4·83	4·4	−0·4	35	− 3
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2353	−119	367	− 96	185	+ 3	38·40	− 1·30	3·5	−0·6	28	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2588	−122	319	− 91	176	+ 8	32·63	+ 3·31	3·7	−0·5	29	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2844	−179	202	−117	183	+17	39·67	+ 7·91	3·8	−0·9	30	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2404	−180	260	−114	178	−20	31·79	− 0·38	3·4	−0·4	26	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2794	−177	184	−100	206	+30	35·61	+ 2·35	3·5	−0·8	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3532	+ 9	44	− 65	184	+ 7	34·71	+ 8·13	4·9	−0·8	39	− 7

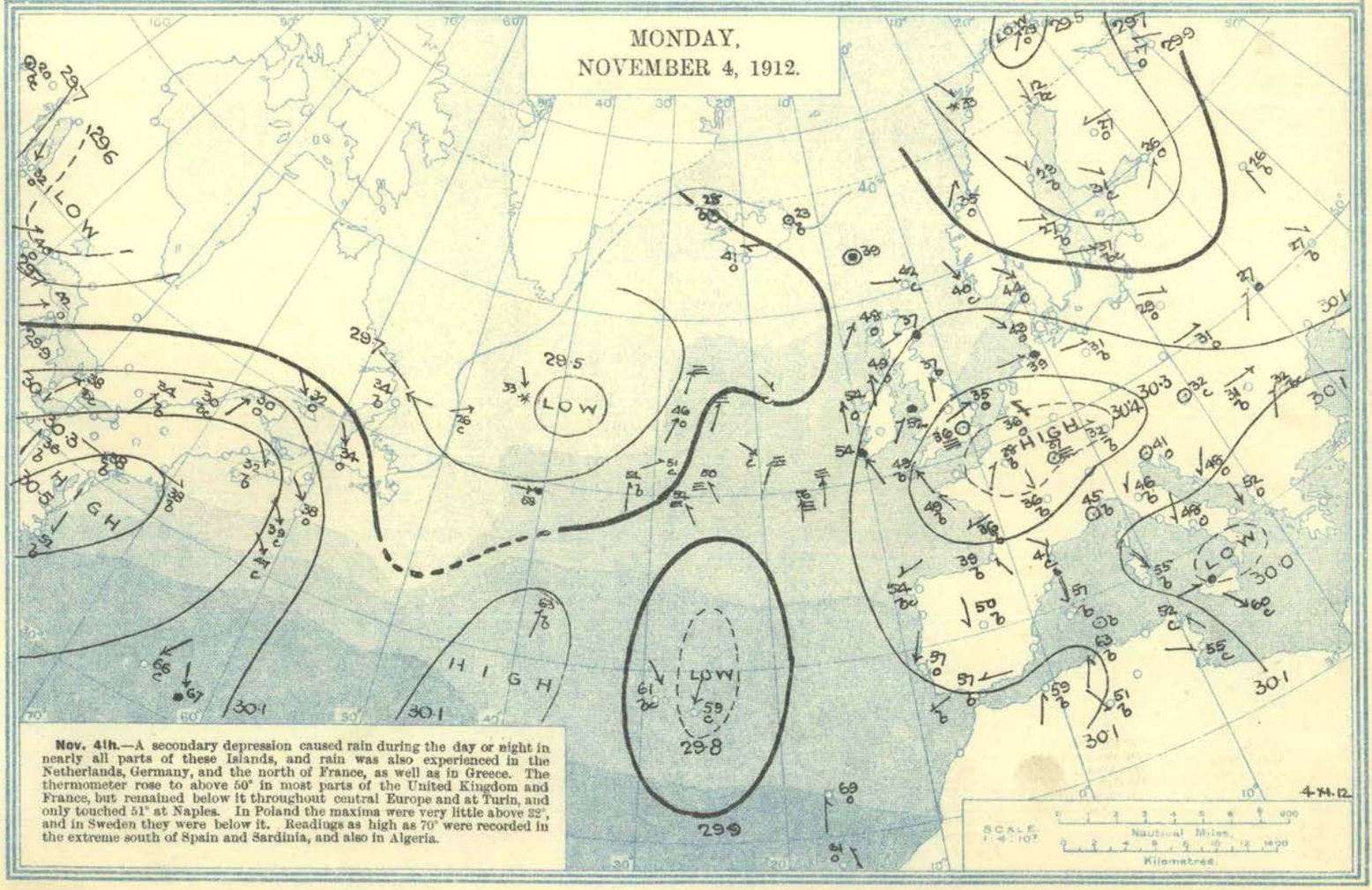
M.O., November 13, 1912.

NOTES ON TABLE IV.

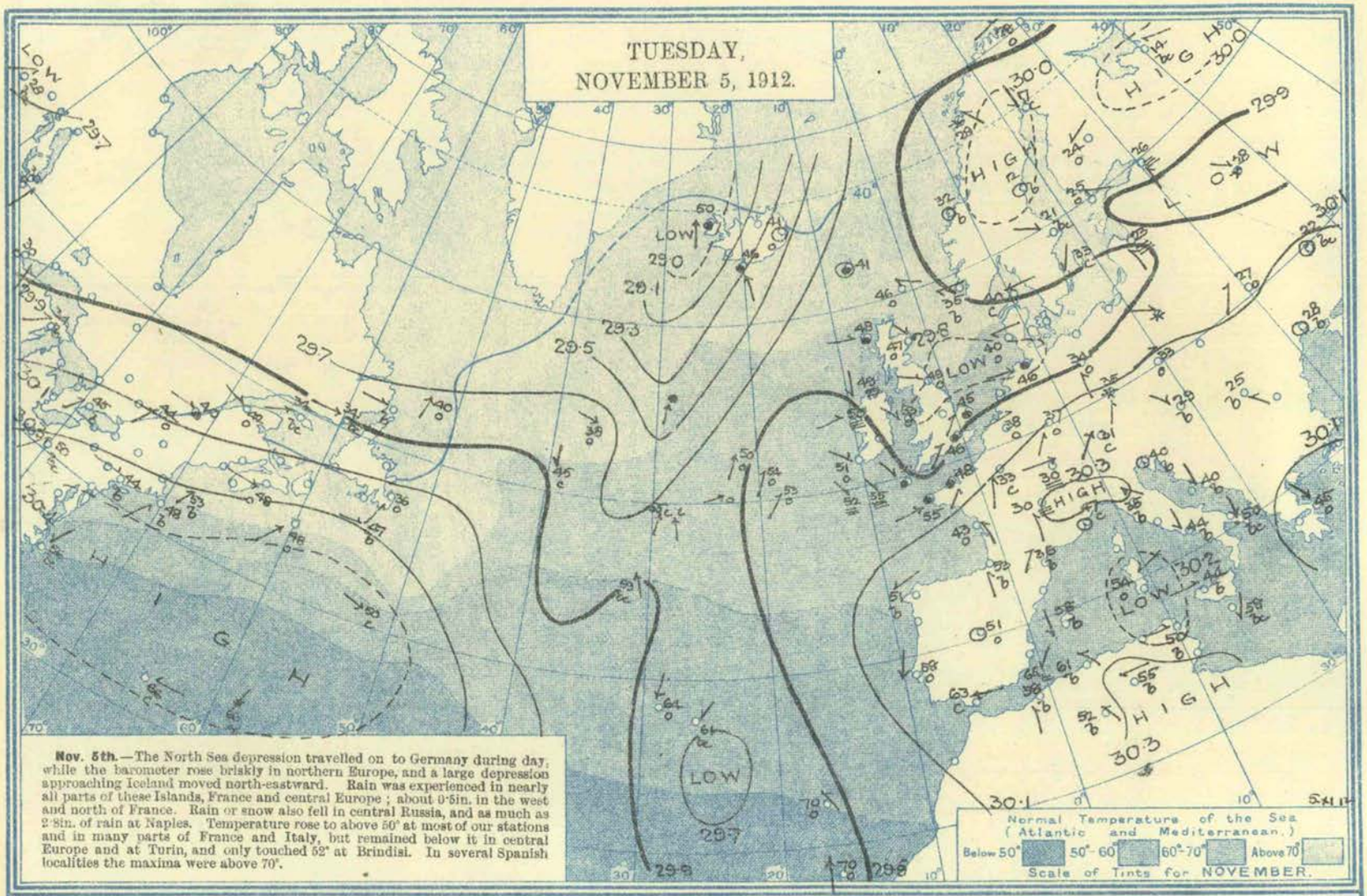
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



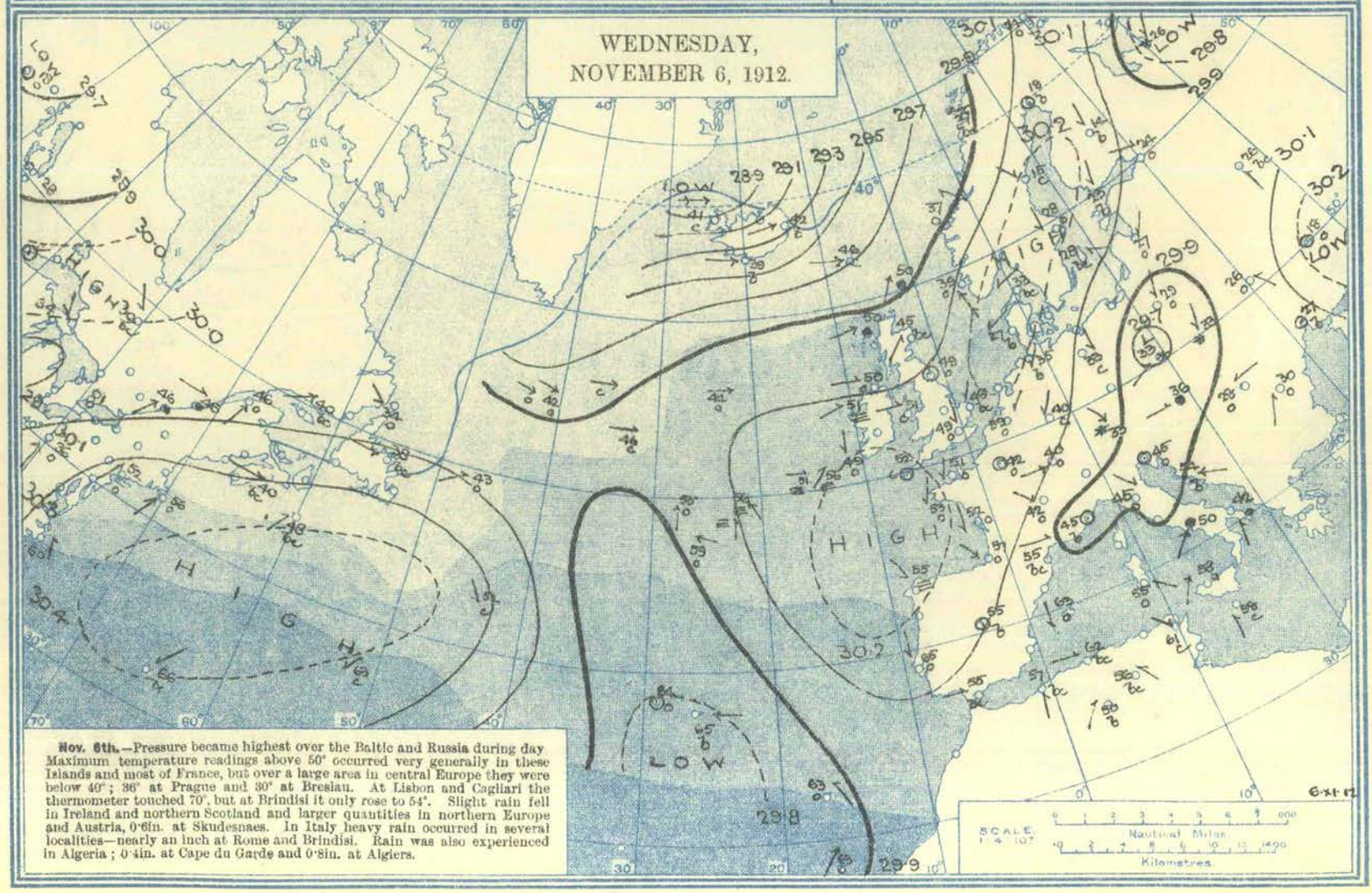
Nov. 3rd.—Very little modification occurred in the pressure distribution during day. Rain, mostly slight, fell in several parts of the United Kingdom and over a large area in central and northern Europe; 0·7in. at Christiansund. The thermometer remained below 45° in several parts of Gt. Britain, and fell to below 32° at night. In central Europe the maximum temperature was below 40° in many places, and only 42° at Clermont. Readings of 70° or above were recorded in Algeria and the south of Spain, but in Italy they were below 60°: only 55° at Brindisi.



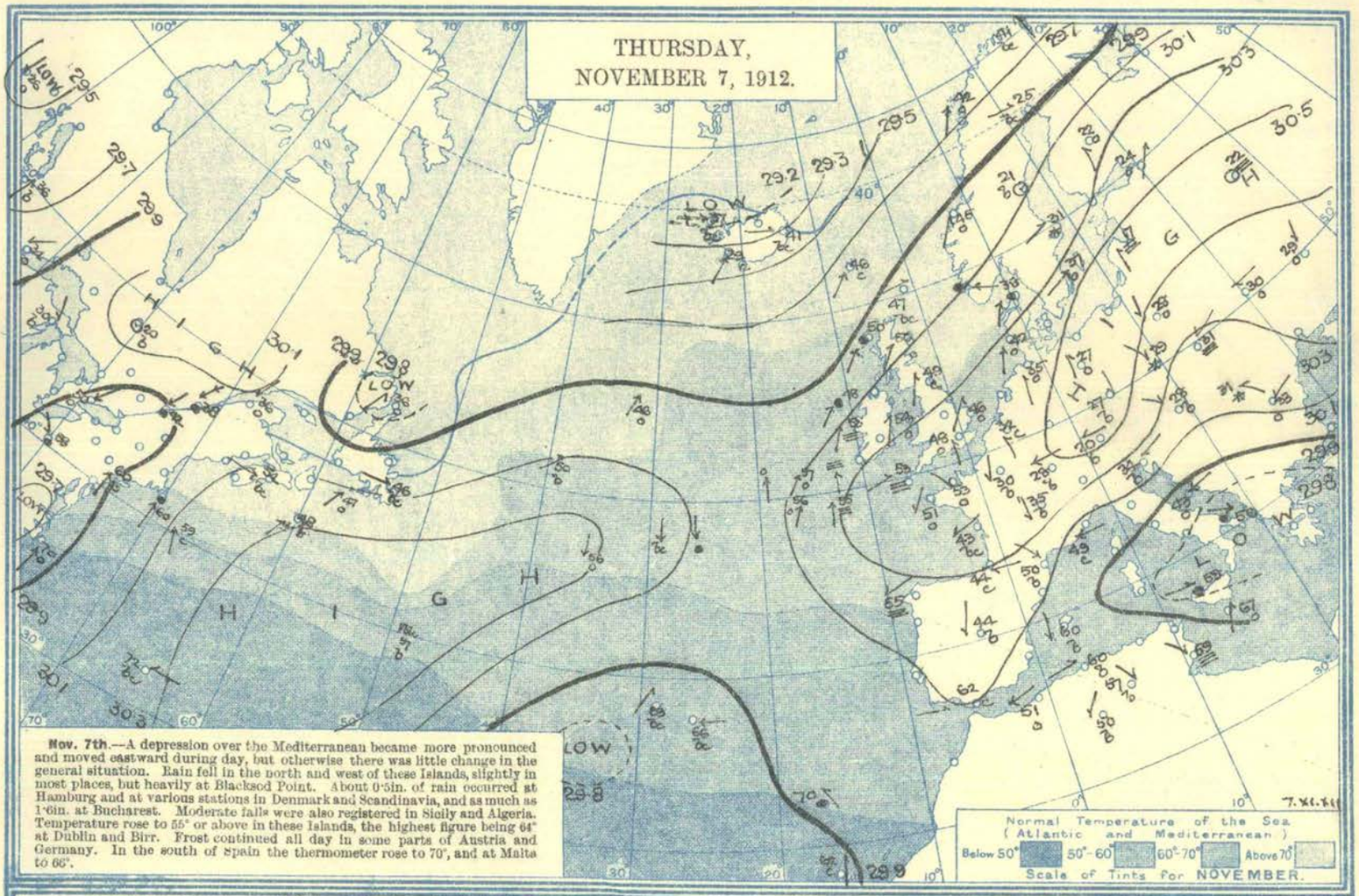
Nov. 4th.—A secondary depression caused rain during the day or night in nearly all parts of these Islands, and rain was also experienced in the Netherlands, Germany, and the north of France, as well as in Greece. The thermometer rose to above 50° in most parts of the United Kingdom and France, but remained below it throughout central Europe and at Turin, and only touched 51° at Naples. In Poland the maxima were very little above 22°, and in Sweden they were below it. Readings as high as 70° were recorded in the extreme south of Spain and Sardinia, and also in Algeria.



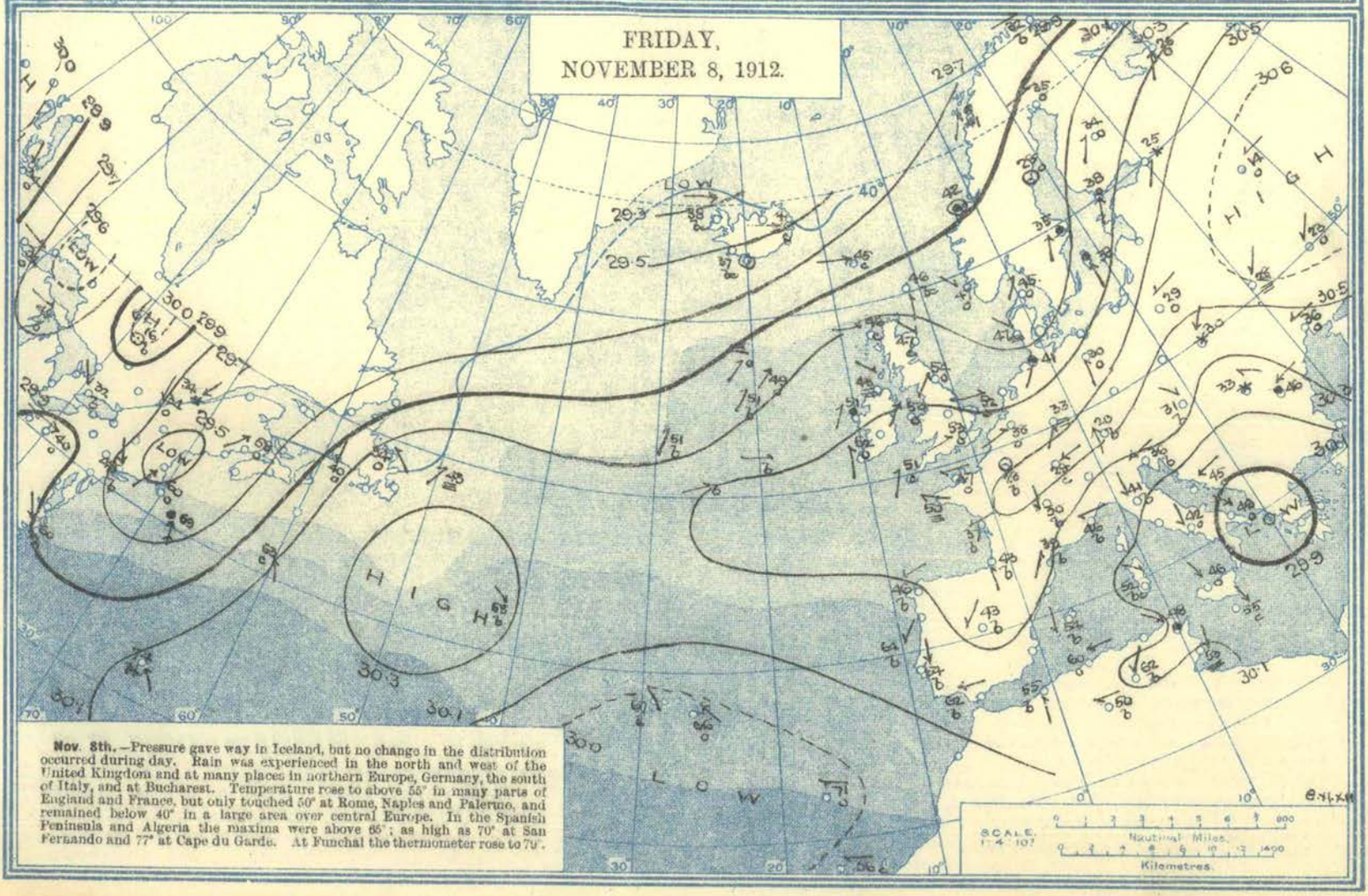
Nov. 5th.—The North Sea depression travelled on to Germany during day, while the barometer rose briskly in northern Europe, and a large depression approaching Iceland moved north-eastward. Rain was experienced in nearly all parts of these Islands, France and central Europe; about 0·5in. in the west and north of France. Rain or snow also fell in central Russia, and as much as 2·8in. of rain at Naples. Temperature rose to above 50° at most of our stations and in many parts of France and Italy, but remained below it in central Europe and at Turin, and only touched 52° at Brindisi. In several Spanish localities the maxima were above 70°.



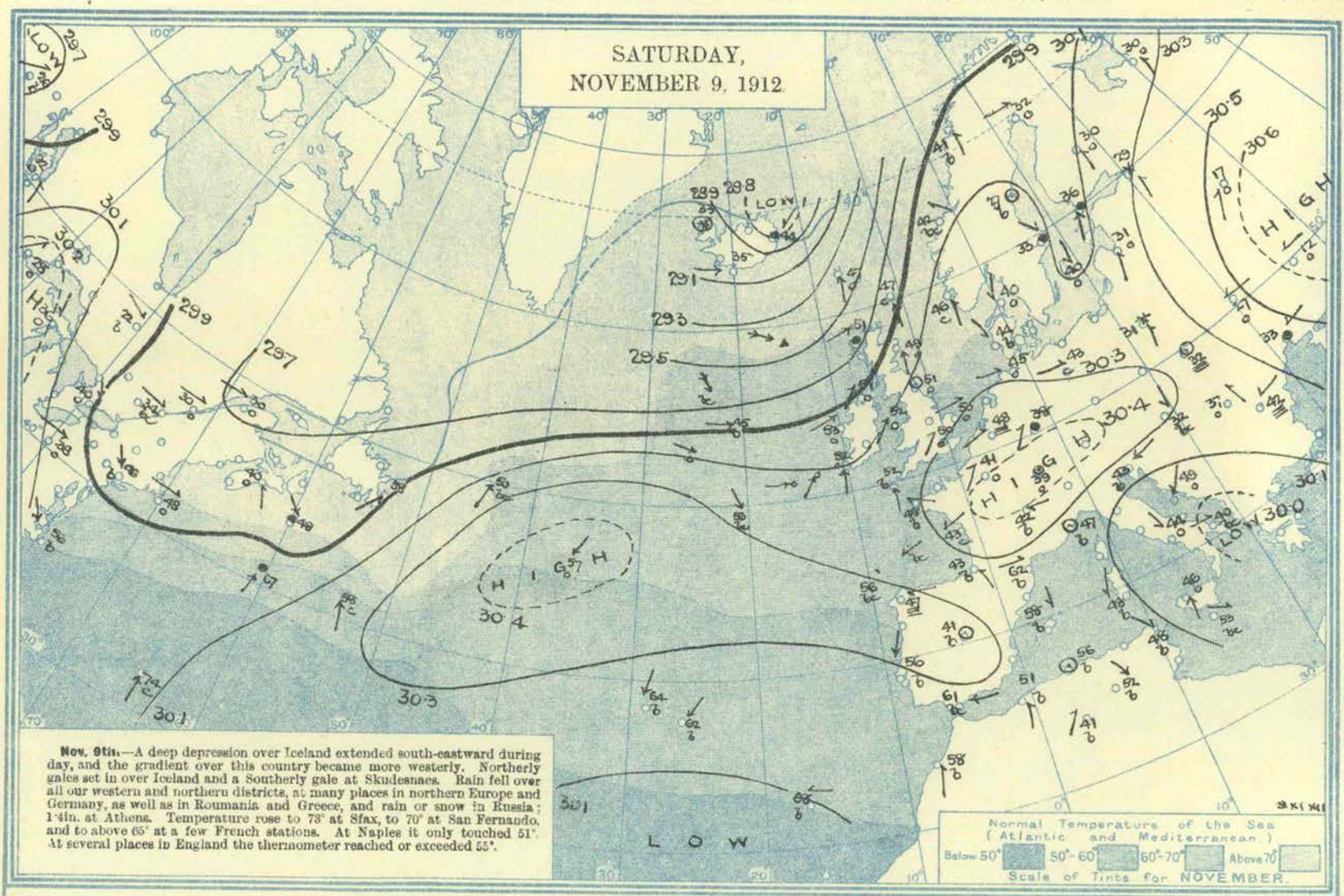
Nov. 6th.—Pressure became highest over the Baltic and Russia during day. Maximum temperature readings above 50° occurred very generally in these Islands and most of France, but over a large area in central Europe they were below 40°; 36° at Prague and 30° at Breslau. At Lisbon and Cagliari the thermometer touched 70°, but at Brindisi it only rose to 54°. Slight rain fell in Ireland and northern Scotland and larger quantities in northern Europe and Austria, 0·6in. at Skudesnaes. In Italy heavy rain occurred in several localities—nearly an inch at Rome and Brindisi. Rain was also experienced in Algeria; 0·4in. at Cape du Garde and 0·8in. at Algiers.



Nov. 7th.—A depression over the Mediterranean became more pronounced and moved eastward during day, but otherwise there was little change in the general situation. Rain fell in the north and west of these Islands, slightly in most places, but heavily at Blacksod Point. About 0·5in. of rain occurred at Hamburg and at various stations in Denmark and Scandinavia, and as much as 1·6in. at Bucharest. Moderate falls were also registered in Sicily and Algeria. Temperature rose to 55° or above in these Islands, the highest figure being 64° at Dublin and Birr. Frost continued all day in some parts of Austria and Germany. In the south of Spain the thermometer rose to 70°, and at Malta to 66°.

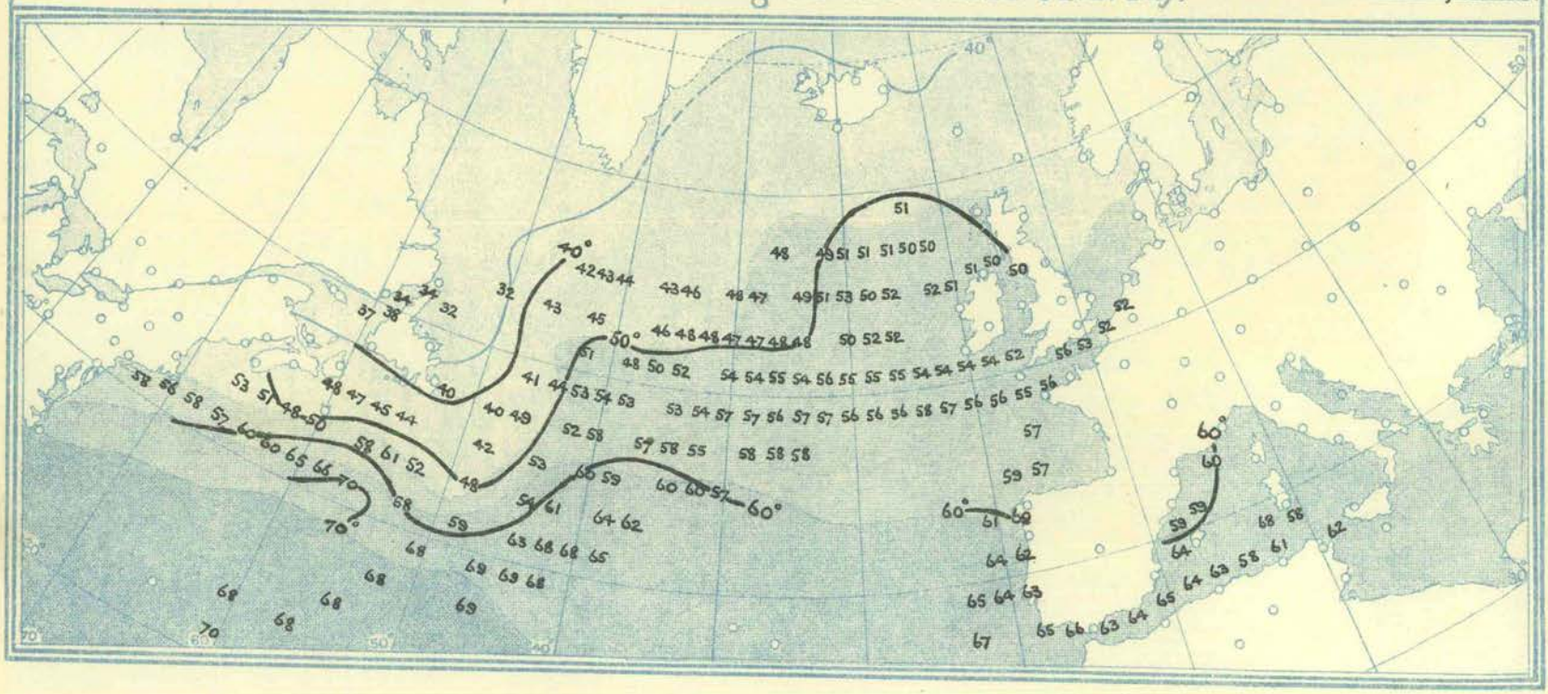


Nov. 8th.—Pressure gave way in Iceland, but no change in the distribution occurred during day. Rain was experienced in the north and west of the United Kingdom and at many places in northern Europe, Germany, the south of Italy, and at Bucharest. Temperature rose to above 55° in many parts of England and France, but only touched 50° at Rome, Naples and Palermo, and remained below 40° in a large area over central Europe. In the Spanish Peninsula and Algeria the maxima were above 65°; as high as 70° at San Fernando and 77° at Cape du Gards. At Funchal the thermometer rose to 79°.



Nov. 9th.—A deep depression over Iceland extended south-eastward during day, and the gradient over this country became more westerly. Northerly gales set in over Iceland and a Southerly gale at Skudesnaes. Rain fell over all our western and northern districts, at many places in northern Europe and Germany, as well as in Roumania and Greece, and rain or snow in Russia; 1·4in. at Athens. Temperature rose to 73° at Sfax, to 70° at San Fernando, and to above 65° at a few French stations. At Naples it only touched 51°. At several places in England the thermometer reached or exceeded 55°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 9TH. NOVEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.: or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH: or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 46. FORTY-SIXTH WEEK, SUNDAY, NOVEMBER 10TH, TO SATURDAY, NOVEMBER 16TH, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather, after being rough and squally, with frequent rain or passing showers during the earlier half of the week, improved gradually in most parts of the Kingdom, but rain still fell in places, and there was little sunshine. Snow or sleet was experienced in various parts of Scotland and northern England and Ireland early in the period, and a slight thunderstorm occurred at Guernsey on the 12th.

Temperature was below the average in all districts except Ireland N., the deficit being nearly 3° in England S.E. The highest of the maxima were recorded on the 10th at most stations in Ireland and the west and south of England, and on the 15th in nearly all other regions. The values ranged from 58° in Scotland E. to 51° in England E. The lowest of the minima occurred at most stations about the middle of the week, and varied from 27° in Scotland W. and 28° in England S.W. to 33° in England N.E., and to 37° in the English Channel. The lowest grass readings recorded were 20° at Crathes and Newton Rigg, 22° at West Linton and Hampstead, and 23° at Dumfries and Plymouth. In almost all parts of the Kingdom the temperature of the soil at 1 foot below the surface was a little above the average, but at 4 feet it was below it except at Cockle Park (Morpeth), Canterbury, Rothesay, and at some stations in Lancashire and Wales.

Mean Temperature of the Sea. On most parts of the coast the temperature of the water was below the normal, and lower than it was during the corresponding week of last year. The mean value was highest (52°) at Plymouth and Newquay, and lowest (41·5°) at Scarborough.

Rainfall exceeded the average in England E. and N.E. and just equalled it in Scotland N. and E., but elsewhere it was below it. On the 10th an inch of rain was recorded at Glencarron and Llangammarch Wells, and 1·1 in. at Bettws-y-Coed.

Bright Sunshine. In almost all the eastern and north-eastern parts of Great Britain the mean daily duration was less than an hour, and in Ireland S., where the percentage of the possible duration (22) was highest, it was less than 2 hours. In all districts the amount was much below the normal. At York the week was entirely sunless, and at Birmingham, Kew and some other localities the mean daily duration was only one tenth of an hour.

Barometer and Wind. At the commencement of the week a deep depression had its centre some distance to the eastward of Iceland, while a small secondary, which formed over the north of Ireland, moved east-south-eastward and developed considerable intensity, causing a steep north-westerly gradient over the United Kingdom. Strong winds and gales from the North-Westward soon became general, and on many exposed parts of the western and northern coasts they lasted until Wednesday morning, strong to high winds being experienced elsewhere. The gradient then decreased gradually, and by the end of the week, when another depression had appeared over Iceland and the anticyclonic centre had receded south-westward, the gradient had become slight for Westerly winds.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 183.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Moderate	Heavy	Heavy	Moderate	Light	Light	Moderate	Moderate	Moderate	Light	Moderate
	Sunshine ...	Scanty	Scanty	Scanty	Very scanty	Scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 11 weeks from Sept. 1st, 1912.	Warmth ...	0 * 6	2 * 4	2 * 4	0 * 5	2 * 4	0 * 6	2 * 5	2 * 6	1 * 5	3 * 4	2 * 3	0 * 6
	Rainfall ...	3 * 5	5 * 3	4 * 4	5 * 6	2 * 7	3 * 8	2 * 6	1 * 5	3 * 7	2 * 5	1 * 7	3 * 6
	Sunshine ...	3 * 8	2 * 8	2 * 4	2 * 5	1 * 4	3 * 4	1 * 5	4 * 5	4 * 5	3 * 4	1 * 4	4 * 5

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(27275—24.) Wt. 173—814. 450. 11/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*49*	*15th*	*33*	*10, 11*	*44·3*	*39·3*	*41·8*	—	*6*	*11*	•	•	41·1		•	•	*7*	*0·41*	—	*0·7*	—	*10*	—	*Baltasound.*
a Lerwick	48	15th	35	11th	44·4	36·6	40·5	- 2·5	7	21	•	•	•		•	•	6	0·45	—	0·8	- 0·5	10	- 7	Deerness.
a, Islands .. *a* Stornoway	50	15th	35	10, 11, 13	45·4	38·4	41·9	- 1·4	10	15	•	•	•		•	•	7	1·40	+ 0·05	0·9	- 0·6	11	- 7	Stornoway.
a Castlebay, Barra Isd. .	*50*	*15th*	*35*	*13th*	*46·4*	*39·7*	*43·1*	- *1·6*	*17*	*6*	•	•	•		•	•	7	*1·03*	—	*0·6*	—	*8*	—	*Castlebay.*
a Wick	48	14, 15	33	11th	45·1	36·6	40·9	- 1·6	9	21	•	•	•		•	•	7	0·75	+ 0·12	•	•	•	•	
b, Main- *p* Strathpeffer .. land. *p* Glencarron ..	51	15th	34	10th	45·0	37·4	41·2	- 0·4	8	18	•	•	•		•	•	3	1·13	+ 0·49	0·4	- 1·1	5	-15	Strathpeffer.
p Fort Augustus..	48	15th	33	12th	43·1	37·0	40·1	- 1·3	3	19	•	•	•		•	•	7	2·69	+ 0·59	•	•	•	•	
p Fort William ..	53	15th	32	14th	44·6	36·3	40·5	- 1·7	7	22	•	•	•		•	•	7	1·10	+ 0·11	0·3	- 0·5	4	- 6	Fort Augustus.
	53	15th	32	14th	45·7	37·1	41·4	- 1·5	10	20	•	•	•		•	•	4	1·07	- 0·81	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle.. S	51	15th	33	16th	46·7	37·4	42·1	- 0·5	20	13	2	20	41·9	+0·2	45·0	-1·8	—	—	—	0·4	—	5	—	Crathes S.
a Nairn	52	15th	34	10, 11	45·1	36·7	40·9	- 0·8	9	21	•	•	•		•	•	5	1·03	+ 0·41	*1·0*	—	*13*	—	*Gordon Castle.*
a Aberdeen ..	52	15th	35	10, 11	45·7	38·6	42·2	- 0·4	16	10	•	•	•		•	•	6	0·57	+ 0·10	0·7	—	9	—	Nairn.
a Balmoral ..	54	15th	31	10th	48·6	34·9	41·8	+ 2·9	18	30	3	28	•		•	•	6	0·89	+ 0·21	0·7	- 1·2	9	-15	Aberdeen.
p Crieff	58	15th	34	10, 11, 12	45·9	36·6	41·3	- 0·6	11	22	•	•	•		•	•	4	1·59	+ 0·72	•	•	•	•	Balmoral.
a Leith	55	15th	36	11, 14	47·1	38·3	42·7	- 1·1	20	10	•	•	•		•	•	4	0·14	- 0·91	1·8	—	23	—	Balruddery.
p West Linton .. S	51	15th	30	14th	44·0	34·3	39·2	- 1·2	6	29	5	22	•		•	•	4	0·36	- 0·69	•	•	•	•	
p Marchmont ..	52	15th	34	10, 11	44·7	36·6	40·7	- 0·6	8	21	0	31	40·9	+0·6	•	•	3	0·31	—	*1·2*	—	*15*	—	*West Linton.*
																	4	0·68	- 0·05	1·2	- 0·5	15	- 7	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	53	15th	36	11, 12	47·4	39·0	43·2	+ 0·2	21	8	0	31	41·0	+1·2	45·6	+0·6	5	1·41	+ 0·65	0·4	—	5	—	Cockle Park.
a Shields	52	15th	33	11th	46·9	37·0	42·0	- 1·7	14	14	•	•	•		•	•	6	1·40	+ 0·90	•	•	•	•	*Newcastle.*
p Durham	51	15th	34	12th	45·1	37·7	41·4	- 1·3	9	17	0	31	•		•	•	4	1·26	+ 0·70	0·7	- 1·2	8	-14	Durham.
a, North .. *p* Rounton	50	15th	33	12th	45·4	37·1	41·3	- 1·2	10	20	2	27	42·9		•	•	5	0·99	+ 0·44	•	•	•	•	Rounton.
a West Witton	*50*	*15th*	*34*	*12, 13*	*44·7*	*37·4*	*41·1*	—	*8*	*18*	2	30	43·0		•	•	*4*	*0·51*	—	•	•	•	•	*West Witton.*
p Scarborough	51	15th	37	11, 12	47·5	39·9	43·7	- 0·7	21	6	•	•	•		45·9	•	6	1·15	+ 0·57	0·5	—	6	—	Scarborough.
p York	51	15th	35	12th	47·0	39·1	43·1	- 0·3	20	8	•	•	45·3	+0·4	48·4†	•	4	0·95	+ 0·47	0·0	- 1·4	0	-17	York.
															48·4	-0·9	4	0·95	+ 0·47	0·0	- 1·4	0	-17	
a Spurn Head	48	10, 16	36	12th	45·7	40·0	42·9	- 2·1	15	6	1	29	43·7	+1·0	47·7	-1·7	5	1·48	+ 1·06	*0·5*	—	*6*	—	*Hull.*
b South .. *a* Lincoln	50	15, 16	35	12th	45·7	38·4	42·1	- 0·9	16	10	•	•	42·3	-0·8	47·1	-2·1	4	0·64	+ 0·20	•	•	•	•	Lincoln.
a Fulbeck	54	10th	34	13th	46·0	38·3	42·2	- 0·6	17	10	2	26	45·0	+1·9	49·0	-0·9	3	0·34	- 0·11	1·1	—	13	—	Rauceby.
											•	•	•		•	•	—	—	—	0·7	—	8	—	Skegness.
											0	33	45·4	+0·9	49·4	-0·6	—	—	—	*0·6*	—	*7*	—	*Lowestoft.*
3. ENGLAND, E.																								
p Cromer	49	16th	31	12th	47·6	37·7	42·7	- 0·6	23	12	•	•	•		•	•	7	1·02	—	0·1	—	1	—	Cromer.
p Little Massingham	*48*	*16th*	*34*	*12th*	*45·3*	*38·1*	*41·7*	- *1·3*	*9*	*16*	0	31	•		•	•	*7*	*2·10*	—	*0·7*	•	*8*	•	*Little Massingham*
a, North .. *a* Yarmouth	49	16th	36	12th	46·3	40·0	43·2	- 1·1	17	6	•	•	45·1	+2·3	49·4	-0·4	7	1·84	+ 1·30	0·5	—	6	—	Yarmouth.
a Norwich	50	16th	36	12th	46·3	39·6	43·0	- 0·3	17	7	2	30	44·4	•	•	•	*7*	1·60	—	*0·4*	—	*5*	—	*Norwich.*
p Geldeston	50	16th	36	12th	47·3	40·0	43·7	- 0·5	20	6	•	•	•		•	•	7	1·69	+ 1·16	0·6	- 1·6	7	-18	Geldeston.
p Cambridge	50	10, 16	35	12th	46·7	39·6	43·2	- 0·3	18	7	1	30	45·2	+1·4	49·7	-0·3	6	0·56	+ 0·11	0·6	- 1·5	7	-17	Cambridge.
a Felixstowe	*50*	*16th*	*34*	*12th*	*46·3*	*38·4*	*42·4*	- *2·6*	*18*	*10*	•	•	•		•	•	*6*	*0·65*	—	*0·6*	—	*7*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	50	16th	35	12, 13	45·4	38·6	42·0	- 3·0	10	10	0	31	45·7	-1·8	50·3	-0·6	5	0·54	—	0·6	—	7	—	Clacton.
a Rothamsted	50	16th	34	13th	45·3	37·6	41·5	- 1·5	9	18	•	•	•		•	•	7	0·50	- 0·13	0·5	- 1·6	6	-18	Rothamsted.
a Shoeburyness	*51*	*10th*	*36*	*12th*	*45·9*	*39·3*	*42·6*	- *2·7*	*16*	*8*	4	26	45·7	+0·1	•	•	*6*	*0·39*	- *0·06*	*0·7*	—	*8*	—	*Southend.*
p Tottenham	51	11th	37	13th	46·9	40·0	43·5	- 1·1	19	6	0	31	•	•	50·5	-0·8	4	0·24	—	0·4	—	5	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	50	15th	33	12th	44·6	37·6	41·1	- 1·4	7	17	1	30	42·8	+1·2	47·2	-0·7	—	—	—	*0·8*	—	*9*	—	*Huddersfield.*
a Bawtry	50	15, 16	35	12th	46·0	38·7	42·4	- 0·6	17	9	1	30	43·6	0·0	46·3	0·0	4	0·57	- 0·08	0·8	—	10	—	Harrogate.
p Buxton	*49*	*10th*	*31*	*13th*	*44·0*	*34·9*	*39·5*	- *1·1*	*6*	*27*	2	28	44·3	•	47·5	•	4	0·52	+ 0·07	0·7	- 0·9	8	-11	Worksop.
a East .. *a* Nottingham	51	10, 16	36	12, 13, 16	46·6	37·6	42·1	- 1·0	19	12	4	28	43·1	+1·5	47·4	-0·7	*6*	*0·99*	- *0·13*	*0·6*	—	*7*	—	*Buxton.*
p Birmingham, Edgbsn.	49	10, 16	35	11, 13	45·3	38·1	41·7	- 1·5	9	16	2	30	42·4	+0·4	47·2	-0·8	5	0·30	- 0·13	0·5	—	6	—	Nottingham.
a Raunds	51	16th	32	14th	46·0	36·0	41·0	- 1·7	11	24	5	27	43·9	0·0	48·5	-0·6	4	0·46	- 0·08	0·1	—	1	—	Birmingham.
a Oxford	51	10th	36	13, 15	45·9	38·1	42·0	- 2·0	11	11	2	27	45·1	•	50·6	•	3	0·30	—	•	•	•	•	Raunds.
											0	32	•	•	•	•	4	0·30	- 0·24	0·3	- 1·7	3	-19	Oxford.
											0	31	44·3	+0·8	47·9	-0·9	—	—	—	0·9	—	11	—	Sheffield.
a Cheadle	49	15, 16	32	12th	44·6	36·0	40·3	- 2·0	7	23	5	26	•	•	•	•	3	0·75	+ 0·10	•	•	•	•	Cheadle.
p Shrewsbury	52	10, 12, 16	34	14th	48·6	38·3	43·5	- 0·5	26	10	1	30	•	•	•	•	2	0·48	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	52	10th	32	15th	47·0	38·1	42·6	- 0·9	21	11	2	26	•	•	•	•	2	0·14	- 0·42	•	•	•	•	Hereford.
a Cirencester	51	16th	35	13th	45·1	37·4	41·3	- 1·2	9	19	0	31	45·0	•	48·8	•	5	0·18	- 0·48	0·4	- 1·6	5	-18	Cirencester.
a Bath	55	10th	34	13th	49·3	38·6	44·0	- 0·5	28	10	•	•	46·4	0·0	51·7	-0·1	4	0·20	- 0·49	1·3	—	15	—	Bath.
5. ENGLAND, S.E.																								
p Kew	51	10, 11	37	12, 13	47·1	40·1	43·6	- 0·5	19	5	0	32	45·5	+0·8	50·5	+1·1	—	—	—	•	•	•	•	Canterbury.
a Marlborough	50	10th	32	13th	45·3	36·1	40·7	- 1·8	9	23	1	29	45·4	+1·3	49·8	-0·5	6	0·27	- 0·24	0·1	- 1·6	1	-19	Kew.
a Margate	52	10th	38	12th	46·3	41·0	43·7	- 1·9	16	3	3	25	•	•	49·7	•	3	0·21	- 0·53	0·1	- 2·5	1	-28	Marlborough.
a Wisley, Surrey ..	51	10th	36	12, 13	46·0	38·1	42·1	- 2·7	17	11	•	•	46·1	+0·8	49·0	-0·5	5	0·31	- 0·24	0·3	- 1·8	3	-21	Margate.
a Swarraton	50	10th	35	13th	45·1	37·6	41·4	- 1·9	9	18	0	31	44·8	+0·8	49·4	-0·3	6	0·13	—	0·3	—	3	—	Wisley
a Tunbridge Wells ..	50	10th	34	12th	44·3	37·3	40·8	- 3·2	6	18	0	33	46·1	+1·5	51·2	-0·2	4	0·16	- 0·60	0·8	—	9	—	Worthing.
a Dungeness	53	10th	34	12, 13	46·4	38·3	42·4	- 4·0	18	10	2	29	44·9	+1·7	•	•	5	0·29	- 0·49	0·4	- 1·9	5	-22	Tunbridge Wells.
p Hastings..	52	10, 11	35	12th	46·3	39·6	43·0	- 3·0	17	2	•	•	•		•	•	3	0·34	- 0·34	0·4	—	5	—	Littlestone.
p Southampton	53	10th	35	13th	47·9	39·6	43·8	- 2·2	23	7	0	31	45·5	•	50·7	•	4	0·31	- 0·42	*0·3*	- *2·2*	*3*	- *25*	*Hastings.*
a Ventnor	54	10th	36	12, 13	47·7	40·0	43·9	- 4·1	22	6	0	31	•	•	•	•	4	0·17	- 0·58	0·4	- 1·8	5	-20	Southampton
											•	•	•	•	•	•	3	0·18	- 0·55	1·2	- 1·2	14	-13	Ventnor.
											0	32	46·1	+0·1	51·3	-0·5	—	—	—	*0·8*	—	*9*	—	*Portsmouth.*
											•	•	47·3	•	51·7	•	—	—	—	0·2	- 2·1	2	-24	Eastbourne.
											•	•	46·2	•	49·4	•	—	—	—	*1·6*	—	*18*	—	*Bournemouth.*
LONDON.											0	33	•	•	50·3	•	—	—	—	*0·5*	- *1·9*	*6*	- *22*	*Brighton.*
a Westminster	*51*	*10, 16*	*36*	*12th*	*47·1*	*40·0*	*43·6*	- *0·9*	*20*	*6*	1	30	•	•	•	•	*6*	*0·12*	- *0·41*	*0·2*	- *0·8*	*2*	- *9*	*Westminster.*
a Greenwich	*51*	*10th*	*36*	*12th*	*46·0*	*39·3*	*42·7*	- *1·8*	*16*	*8*	1	29	•	•	•	•	*6*	*0·22*	- *0·31*	*0·3*	- *1·3*	*3*	- *15*	*Greenwich.*
a Hampstead	*50*	*10th*	*34*	*12, 13*	*44·7*	*37·9*	*41·3*	—	*8*	*16*	0	22	•	•	•	•	*6*	*0·32*	—	*0·3*	—	*3*	—	*Hampstead.*
a Camden Square ..	*50*	*10, 16*	*36*	*12, 13*	*46·1*	*39·1*	*42·6*	—	*16*	*8*	0	31	•	•	•	•	*6*	*0·24*	—	*0·4*	—	*5*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	52	15th	36	13th	45·9	40·3	43·1	- 0·5	15	5	•	•	•	•	•	•	4	0·80	- 0·46	•	•	•	•	
p Glasgow	53	15th	35	13, 14	46·1	38·6	42·4	- 0·6	17	10	2	24	•	•	•	•	4	0·35	- 0·50	0·3	- 0·7	4	- 8	Glasgow.
p Rothesay .. S	53	15th	36	12, 13	47·9	39·9	43·9	- 0·1	22	6	•	•	•	•	47·7	+0·6	3	0·82	- 0·33	•	•	•	•	
a Kilmarnock ..	54	15th	28	14th	46·7	34·1	40·4	- 2·3	13	31	•	•	•	•	•	•	3	0·47	—	*1·0*	—	*12*	—	*Kilmarnock.*
a Colmonell ..	51	10th	36	14, 16	47·7	39·6	43·7	+ 1·0	22	7	0	32	•	•	•	•	2	0·67	- 0·57	•	•	•	•	
p Dumfries ..	52	15th	32	14th	46·1	37·3	41·7	- 1·3	11	19	5	23	43·0	•	47·4	•	2	0·30	- 0·60	*1·5*	—	*18*	—	*Dumfries.*
p Cally, Gatehouse	52	16th	27	14th	48·4	35·3	41·9	- 1·1	18	28	•	•	•	•	•	•	2	0·40	- 0·87	•	•	•	•	
b I. OF MAN.																								
p Douglas	51	15th	37	11, 14	47·7	40·1	43·9	- 1·6	21	5	1	28	•	•	•	•	3	0·94	- 0·16	1·6	- 0·5	19	- 6	Douglas.
7. *a*, ENGLAND, N.W.											3	24	42·4	+1·3	47·0	-0·5	—	—	—	*1·2*	—	*14*	—	*Burnley.*
p Aspatria	54	15th	30	13th	45·3	35·4	40·4	- 2·4	9	26	1	28	•	•	•	•	—	—	—	0·9	—	11	—	Hoylake.
p Newton Rigg	52	15th	33	13th	44·0	35·6	39·8	- 1·6	6	24	3	25	44·7	•	48·5	•	3	0·44	- 0·54	0·5	—	6	—	Aspatria.
p Stonyhurst	49	10th	35	13th	45·3	37·4	41·4	- 1·6	9	19	7	20	43·6	+0·3	46·6	-0·7	3	0·29	- 0·56	1·2	- 0·5	15	- 7	Newton Rigg.
p Blackpool	52	10th	39	12–15	47·4	40·6	44·0	- 0·5	20	4	2	29	•	•	•	•	3	0·99	- 0·06	1·9	+ 0·3	22	+ 4	Stonyhurst.
p Manchester (Whit. Pk.)	*51*	*10th*	*37*	*13, 14*	*48·1*	*39·7*	*43·9*	—	*16*	*6*	3	29	45·6	•	49·3	•	2	0·34	- 0·50	1·1	- 0·5	13	- 6	Blackpool.
a Liverpool (Bidston) ..	51	10th	39	11, 13	47·0	41·1	44·1	+ 0·4	18	3	2	*28*	•	•	•	•	*1*	*0·31*	—	*0·4*	—	*5*	—	*Whit. Park.*
a Hawarden Bridge ..	50	15th	37	14th	47·1	41·4	44·3	- 1·1	19	2	•	•	•	•	•	•	5	0·37	- 0·25	*1·1*	—	*13*	—	*Liverpool.*
											2	28	43·3	+1·5	47·6	+0·2	2	0·29	- 0·26	*1·4*	- *0·2*	*16*	- *2*	*Southport.*
											1	29	42·7	0·0	48·8	+0·5	—	—	—	*1·0*	—	*12*	—	*Manchester City).*
b, NORTH WALES.																								
p Llandudno	51	10th	41	11, 12, 14	48·1	42·6	45·4	- 1·2	24	0	•	•	•	•	•	•	6	0·54	- 0·18	0·5	- 1·4	6	-16	Llandudno.
a Holyhead	54	16th	43	11–14	50·1	44·4	47·3	+ 0·3	37	0	•	•	•	•	•	•	6	0·30	- 0·67	0·9	—	10	—	Aberdovey.
p Bettws-y-Coed ..	54	10th	35	15th	48·4	39·1	43·8	- 2·5	25	8	0	33	44·6	+1·6	48·6	+0·2	4	2·17	—	0·6	—	7	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·9	—	10	—	Aberystwyth.
a Llangammarch Wells	51	10th	28	15th	45·9	35·3	40·6	− 2·0	11	26	3	25	43·8	−0·7	48·9	−1·0	5	1·39	—	1·3	—	15	—	Llangammarch
a Pembroke	54	10th	36	13th	49·9	43·1	46·5	− 1·5	32	0	*	*	*	*	*	*	6	0·70	− 0·20	0·5	− 1·6	6	−19	Pembroke.[Wells
p Cardiff	52	10th	35	13, 14, 15	48·6	37·7	43·2	− 1·3	26	12	3	29	45·2	+1·7	49·8	0·0	3	0·45	− 0·51	*2·3*	—	*26*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	52	10th	36	15th	47·6	39·4	43·5	− 1·5	21	7	3	28	*	*	*	*	2	0·15	− 0·61	*1·2*	—	*14*	—	*Clifton.*
a Shaftesbury	50	10th	31	13th	44·6	35·1	39·9	− 4·1	7	26	*	*	44·3	*	49·9	*	3	0·14	− 0·69	*	*	*	*	Shaftesbury.
a Arlington	50	10th	31	15th	45·9	37·3	41·6	− 3·1	11	19	*	*	48·4	*	*	*	3	0·82	− 0·52	1·3	− 1·3	15	−15	Newquay.
a Cullompton	54	10th	30	15th	48·6	37·3	43·0	− 2·0	27	13	3	26	46·7	*	*	*	4	0·24	− 0·61	2·2	+ 0·3	25	+ 3	Cullompton.
a Portland	55	10th	39	13th	48·6	42·4	45·5	− 2·4	25	0	*	*	*	*	*	*	3	0·15	—	*2·3*	—	*86*	—	*Weymouth.*
p Plymouth	54	10, 11	35	15th	50·1	39·3	44·7	− 2·8	30	8	3	23	46·5	−0·5	*	*	4	0·38	− 0·48	2·7	+ 0·4	30	+ 5	Plymouth.
p Falmouth	52	10th	39	12, 15	49·1	42·3	45·7	− 2·8	26	0	*	*	*	*	*	*	6	0·87	− 0·27	2·2	− 0·4	25	− 4	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	50	10, 15	37	11, 12, 13	47·6	40·3	44·0	− 1·5	21	5	*	*	*	*	*	*	7	0·87	+ 0·12	*	*	*	*	* *
a Blacksod Point ..	53	10th	35	13th	48·6	40·4	44·5	− 2·1	24	4	*	*	*	*	*	*	6	1·28	+ 0·05	*	*	*	*	* *
p Markree Castle ..	52	10th	34	12th	48·4	40·4	44·4	+ 0·6	24	4	0	34	46·4	*	49·9	*	5	0·88	− 0·11	0·9	− 1·0	11	−12	Markree Castle.
a Birr Castle	52	10th	32	13th	47·7	38·9	43·3	− 0·2	22	9	*	*	*	*	*	*	4	0·19	− 0·57	*1·7*	− *0·4*	*20*	− *5*	*Birr Castle.*
b, East .. *p* Armagh	51	15th	35	11, 12, 13	47·7	38·3	43·0	− 0·7	23	10	3	30	45·7	+1·7	48·9	−0·2	4	0·41	− 0·29	1·0	− 1·0	12	−11	Armagh.
a Donaghadee	52	15th	38	11th	48·3	42·4	45·4	− 0·3	24	0	*	*	*	*	*	*	2	0·63	− 0·12	*	*	*	*	* *
											2	29	45·7	+0·5	48·8	−0·5	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											3	27	*	*	*	*	—	—	—	1·5	− 0·9	17	−11	Phœnix Park.
a, East .. *p* Dublin, City	53	10th	35	12, 13	48·0	39·6	43·8	− 2·2	23	7	0	33	*	*	*	*	3	0·13	− 0·53	*	*	*	*	Dublin City.
a Kilkenny	53	10th	35	13, 14	47·9	39·0	43·5	− 0·5	23	8	*	*	*	*	*	*	6	0·30	− 0·45	*	*	*	*	* *
a Waterford	56	10th	35	13, 14	49·0	39·7	44·4	− 1·1	26	6	*	*	*	*	*	*	3	0·10	− 0·82	*	*	*	*	* *
b, West .. *a* Birr Castle	52	10th	32	13th	47·7	38·9	43·3	− 0·2	22	9	*	*	*	*	*	*	4	0·19	− 0·57	1·7	− 0·4	20	− 5	Birr Castle.
a Foynes	53	10th	36	13th	48·9	41·4	45·2	− 0·3	25	2	*	*	*	*	*	*	4	0·47	− 0·49	*	*	*	*	* *
a Cahir	54	10th	35	13th	47·9	40·3	44·1	− 1·2	22	5	*	*	*	*	*	*	3	0·18	—	*	*	*	*	* *
a Killarney	55	10th	35	13th	49·8	41·9	45·9	− 0·1	28	0	*	*	*	*	*	*	7	0·59	− 0·79	*	*	*	*	* *
a Valencia	55	10th	39	12, 13	51·4	44·4	47·9	− 0·1	41	0	*	*	*	*	*	*	6	0·59	− 0·75	2·1	− 0·2	24	− 2	Valencia.
a Roche's Point	55	10th	38	13th	49·1	42·7	45·9	− 1·7	27	0	*	*	*	*	*	*	5	0·14	− 0·91	2·3	—	26	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	55	10th	37	13th	51·0	42·9	47·0	− 3·2	35	0	*	*	*	*	*	*	7	0·66	− 0·15	1·8	− 0·8	20	− 9	Scilly.
a Jersey, St. Aubins ..	56	10th	41	13, 16	50·7	44·0	47·4	− 1·7	38	0	*	*	*	*	*	*	5	0·61	− 0·30	1·6	− 1·1	18	−12	St. Heliers.
a Guernsey (Villa Carey)	55	10th	41	12, 13	49·0	43·9	46·5	− 3·0	32	0	0	35	48·7	−0·3	52·9	−0·2	5	0·50	− 0·55	1·6	− 0·6	18	− 6	Guernsey.*

Additional Sunshine Means:—*Bognor, 0·8 hrs. 9 %; Ramsgate, 0·7 hrs. 8 %; Rhyl, 0·6 hrs. 7 %; Salcombe, 3·1 hrs. 35 %; Tenby, 1·1 hrs. (−1·1) 13 % (− 11 %); Torquay, 2·9 hrs. (+0·7) 33 % (+9 %).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 16th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	47	46	46·3	−0·6	SCOTLAND, W. ..	Lamlash	50	48	48·6	−0·5
	Kirkwall	47	42	44·0	−0·1		Ballantrae	49	45	47·0	+0·8
	Wick	49	48	48·1	−1·1	ENGLAND, N.W. ..	Port Erin	53	47	49·8	−0·9
SCOTLAND, E. ..	Cromarty	47	42	44·2	−0·5	ENGLAND, S.W. ..	Newquay	52	52	52·0	−0·4
	Pennan Bay	47	46	46·4	+1·7		Scilly	54	50	51·3	—
	Aberdeen, Cove Bay	49	47	48·0	+1·5		Salcombe	54	48	51·5	−0·9
ENGLAND, N.E. ..	Burnmouth, Berwick	46	44	44·9	−1·1		Plymouth‡	53	51	52·1	−1·0
	Scarborough	49	38	41·5?	−5·6?	IRELAND, N.W. ..	Sheephaven	50	45	47·9	−0·7
ENGLAND, E. ..	Shipwash Lightship	52	45	48·4	−1·7		Teelin	49	43	47·0	−1·0
ENGLAND, S.E. ..	Margate‡	50	44	46·2	−1·9	IRELAND, S.W. ..	Cleggan	51	45	46·9	−0·3
	Eastbourne‡	51	46	48·0	−1·5		Seafield	54	49	51·4	+1·8
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-SIXTH WEEK—November 10th to November 16th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	53	32	44·8	37·1	40·9	− 1·5	8	− 12	19	+ 3	6	+ 1	1·23	0·00	0·6	−0·5	8	− 7
Eastern.																		
1. SCOTLAND, EAST ...	58	30	46·0	36·7	41·4	− 0·2	11	− 8	22	0	5	+ 1	0·70	0·00	1·0	−0·7	12	− 9
2. ENGLAND, N.E.	54	33	46·3	38·5	42·4	− 0·8	18	− 5	10	− 4	5	+ 1	1·07	+0·51	0·6	−1·3	7	−15
3. ENGLAND, EAST ...	51	31	46·5	39·1	42·9	− 0·5	18	− 8	8	− 8	6	+ 2	1·00	+0·50	0·5	−1·7	5	−19
4. MIDLAND COUNTIES ...	55	32	46·3	37·7	42·0	− 0·7	12	− 11	12	− 7	4	+ 1	0·38	−0·17	0·7	−1·0	8	−12
5. ENGLAND, S.E.	54	32	46·2	38·4	42·3	− 2·9	17	− 16	10	0	4	0	0·21	−0·45	0·4	−1·6	5	−18
Western.																		
6. SCOTLAND, WEST ...	54	27	47·1	38·2	42·6	− 1·2	20	− 5	11	− 1	3	− 1	0·59	−0·63	1·0	−0·6	11	− 7
7. ENGLAND, N.W.	54	30	47·0	39·7	43·4	− 0·8	19	− 7	6	− 4	4	0	0·64	−0·16	1·0	−0·7	11	− 8
8. ENGLAND, S.W.	55	28	47·9	38·9	43·4	− 2·6	23	− 13	9	+ 1	4	0	0·53	−0·41	1·6	−0·5	18	− 6
9. IRELAND, NORTH ...	53	32	48·1	40·1	44·1	+ 0·1	23	− 3	5	− 7	5	+ 1	0·71	−0·22	1·0	−1·0	11	−12
10. IRELAND, SOUTH ...	56	32	48·9	40·9	44·9	− 0·6	25	− 10	3	− 7	5	+ 1	0·30	−0·69	1·9	−0·4	22	− 4
11. ENGLISH CHANNEL ...	56	37	50·2	43·6	47·0	− 2·6	35	− 19	0	− 1	6	+ 1	0·59	−0·30	1·7	−0·8	19	− 9

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 11 Weeks, September 1st to November 16th, 1912.

0. SCOTLAND, NORTH ...	66	28	*	*	*	*	399	− 98	45	−26	52	− 3	11·02	−1·89	2·4	−0·1	23	− 1
Eastern.																		
1. SCOTLAND, EAST ...	72	21	*	*	*	*	440	− 88	104	+10	41	− 4	8·00	+0·77	2·4	−0·6	23	− 5
2. ENGLAND, N.E.	70	27	*	*	*	*	523	−101	36	−11	37	− 4	5·82	−0·45	3·0	−0·3	27	− 3
3. ENGLAND, EAST ...	69	26	*	*	*	*	596	−117	46	− 9	36	− 4	5·70	−0·20	3·4	−0·3	31	− 3
4. MIDLAND COUNTIES ...	70	25	*	*	*	*	545	−106	74	+ 5	26	−13	4·74	−1·59	2·8	−0·4	26	− 4
5. ENGLAND, S.E.	68	24	*	*	*	*	609	−192	37	+ 2	29	−10	6·39	−0·87	3·7	−0·1	34	0
Western.																		
6. SCOTLAND, WEST ...	67	22	*	*	*	*	510	− 84	49	− 1	40	− 6	9·61	−2·46	2·8	−0·2	26	− 2
7. ENGLAND, N.W.	66	26	*	*	*	*	555	−114	27	− 7	35	− 9	7·18	−1·73	3·1	0·0	28	0
8. ENGLAND, S.W.	72	21	*	*	*	*	623	−144	22	− 4	32	−13	7·18	−2·87	3·6	0·0	33	0
9. IRELAND, NORTH ...	67	21	*	*	*	*	577	− 46	28	−13	38	−12	6·02	−3·22	2·8	−0·2	26	− 2
10. IRELAND, SOUTH ...	72	21	*	*	*	*	661	− 59	20	−15	40	− 5	4·97	−4·10	3·3	−0·2	30	− 2
11. ENGLISH CHANNEL ...	68	36	*	*	*	*	860	−131	0	− 1	37	−12	7·59	−1·20	4·3	−0·1	39	− 1

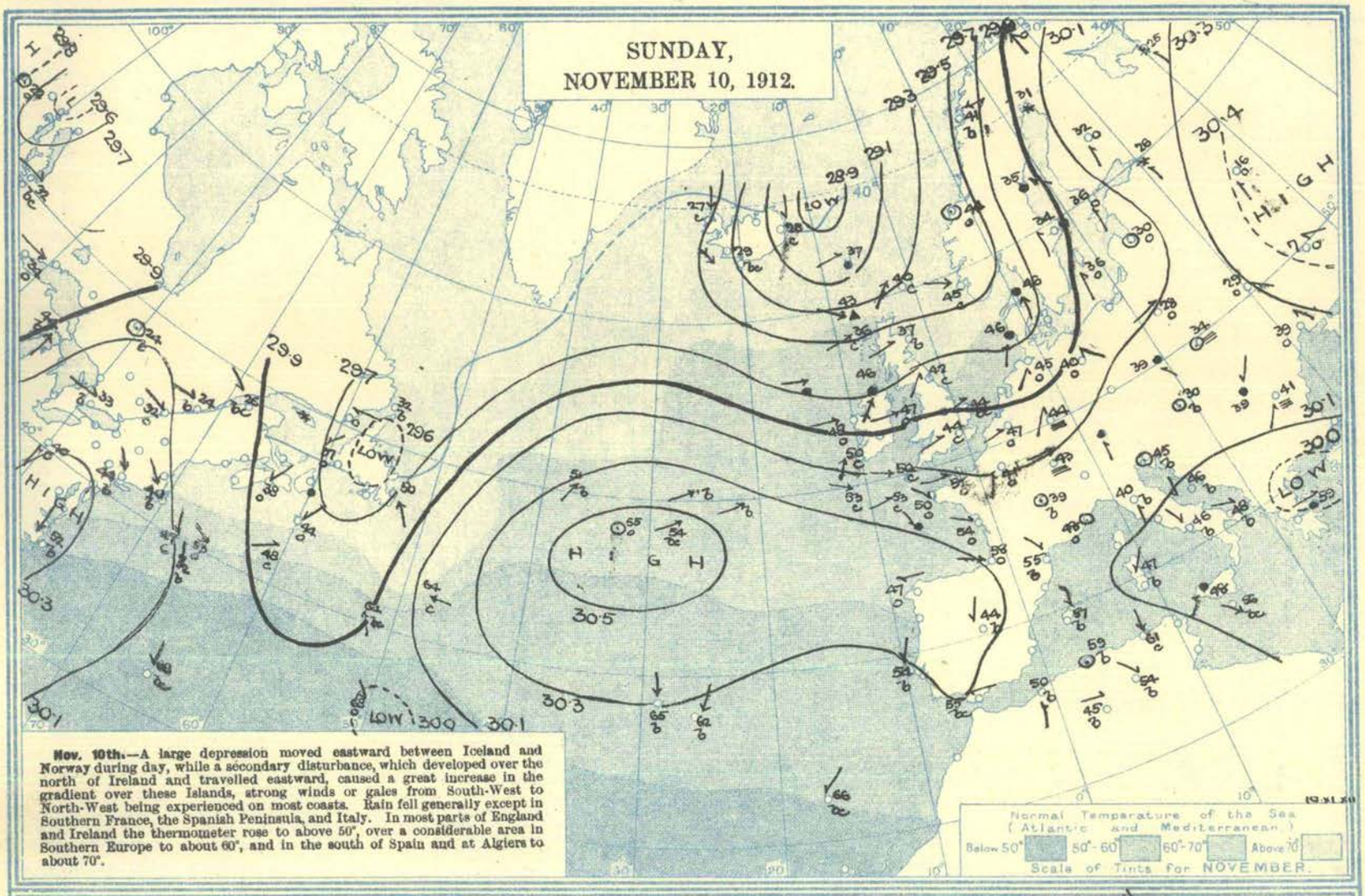
THE YEAR.—Aggregates, &c., for the Period of 46 Weeks, December 31st, 1911, to November 16th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1885	−166	472	−156	212	− 3	41·67	− 2·65	3·0	−0·4	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2109	−189	623	− 91	188	+10	28·74	+ 1·94	3·0	−1·0	24	− 8
2. ENGLAND, N.E.	86	10	*	*	*	*	2514	− 60	409	−113	181	+20	28·34	+ 6·61	3·3	−1·0	26	− 8
3 ENGLAND, EAST ...	91	14	*	*	*	*	3030	+ 57	320	−256	170	+14	26·17	+ 5·36	4·2	−0·5	33	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2769	−118	447	−155	162	+ 8	30·15	+ 7·06	3·4	−0·8	27	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	3054	−166	255	−161	158	+ 9	27·75	+ 4·38	4·3	−0·4	34	− 4
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2373	−124	378	− 97	188	+ 2	38·99	− 1·93	3·5	−0·6	27	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2607	−129	325	− 95	180	+ 8	33·27	+ 3·15	3·6	−0·5	29	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2867	−192	211	−116	187	+17	40·20	+ 7·50	3·8	−0·8	30	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2427	−183	265	−121	183	−19	32·50	− 0·60	3·3	−0·5	26	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2819	−187	187	−107	211	+31	35·91	+ 1·66	3·5	−0·8	27	− 6
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3567	− 10	44	− 66	190	+ 8	35·30	+ 7·83	4·8	−0·9	38	− 6

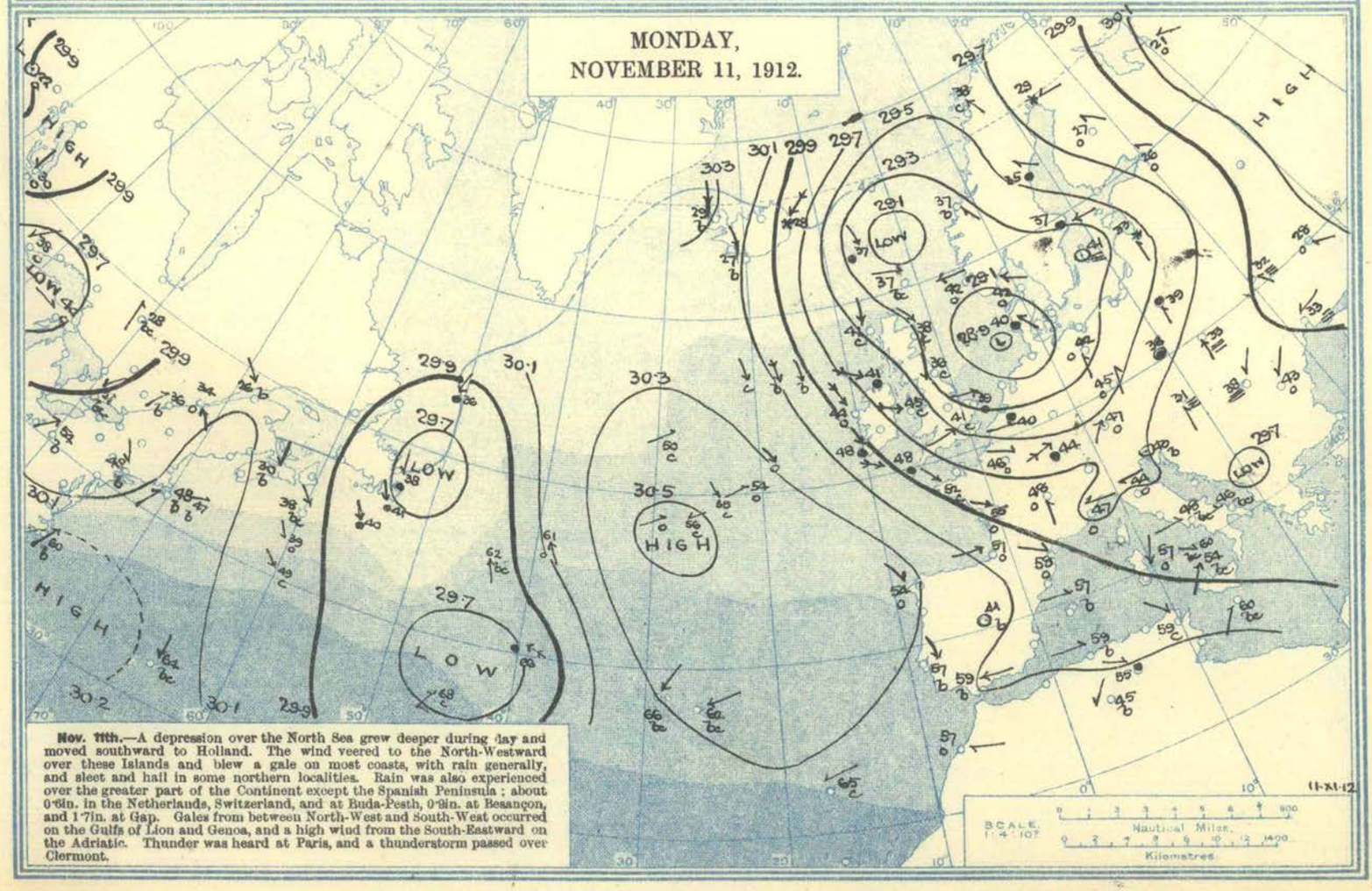
M.O., November 20, 1912.

NOTES ON TABLE IV.

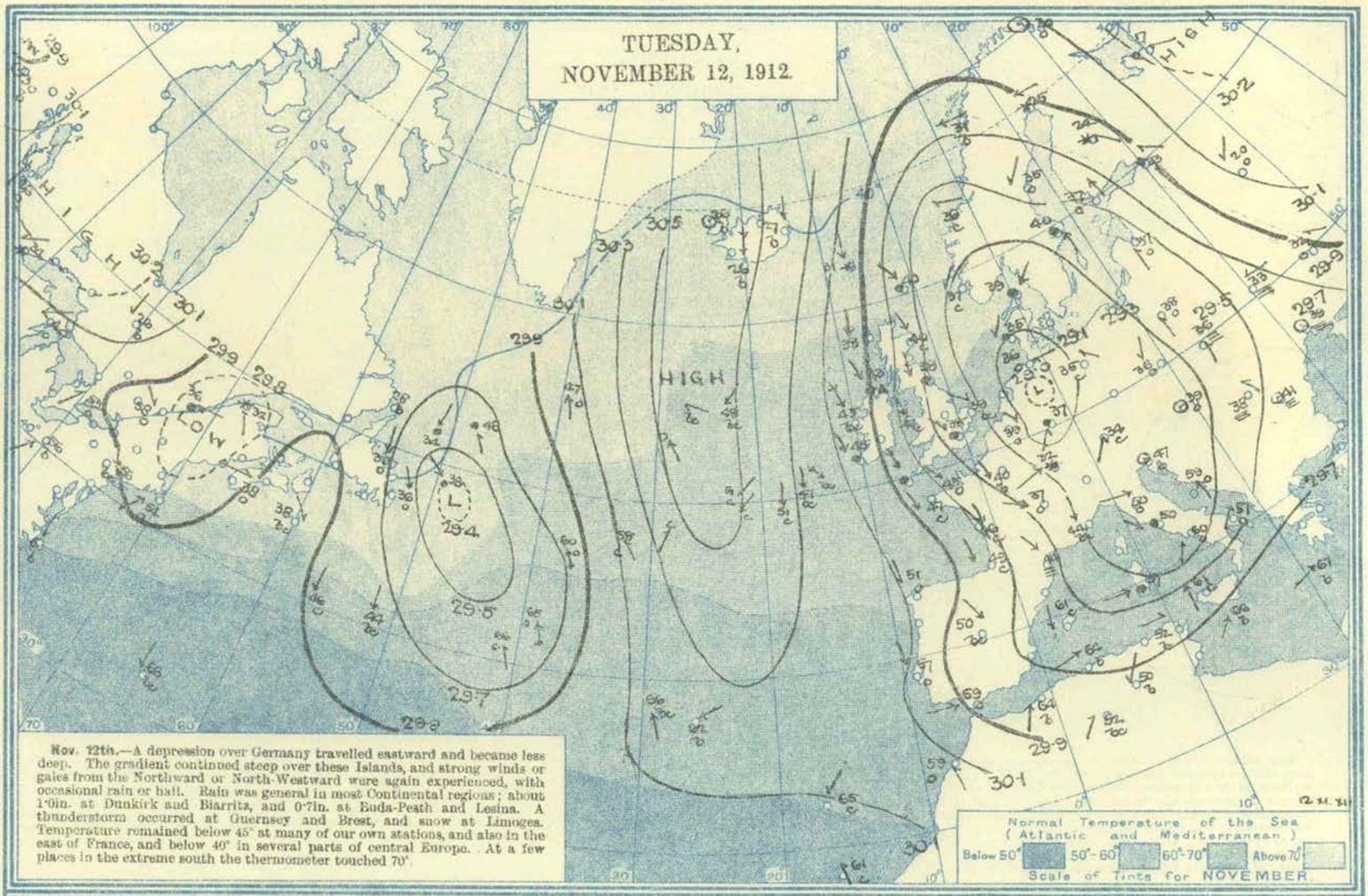
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



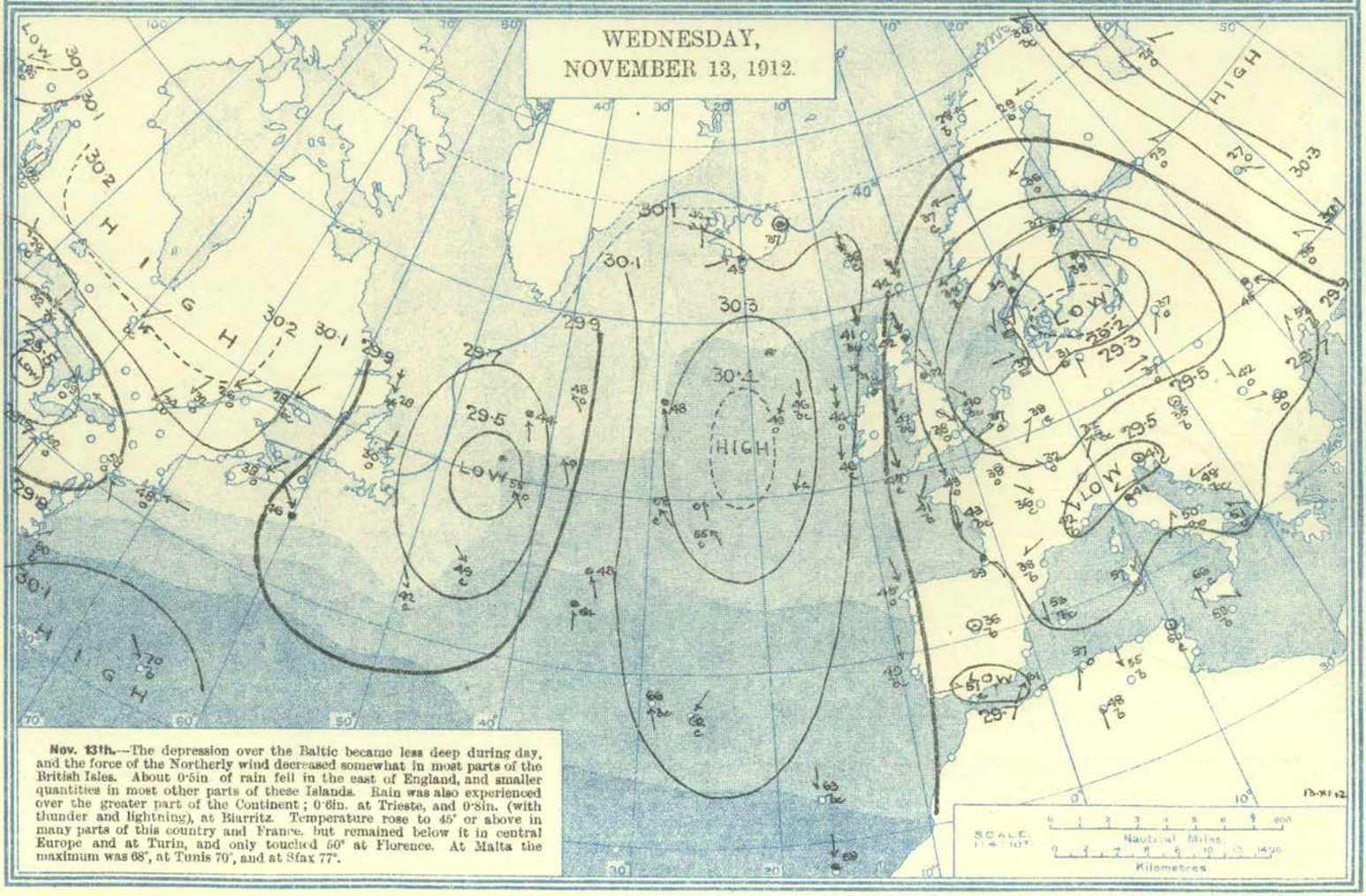
Nov. 10th.—A large depression moved eastward between Iceland and Norway during day, while a secondary disturbance, which developed over the north of Ireland and travelled eastward, caused a great increase in the gradient over these Islands, strong winds or gales from South-West to North-West being experienced on most coasts. Rain fell generally except in Southern France, the Spanish Peninsula, and Italy. In most parts of England and Ireland the thermometer rose to above 50°, over a considerable area in Southern Europe to about 60°, and in the south of Spain and at Algiers to about 70°.



Nov. 11th.—A depression over the North Sea grew deeper during day and moved southward to Holland. The wind veered to the North-Westward over these Islands and blew a gale on most coasts, with rain generally, and sleet and hail in some northern localities. Rain was also experienced over the greater part of the Continent except the Spanish Peninsula; about 0·6in. in the Netherlands, Switzerland, and at Buda-Pesth, 0·9in. at Besançon, and 1·7in. at Gap. Gales from between North-West and South-West occurred on the Gulfs of Lion and Genoa, and a high wind from the South-Eastward on the Adriatic. Thunder was heard at Paris, and a thunderstorm passed over Clermont.

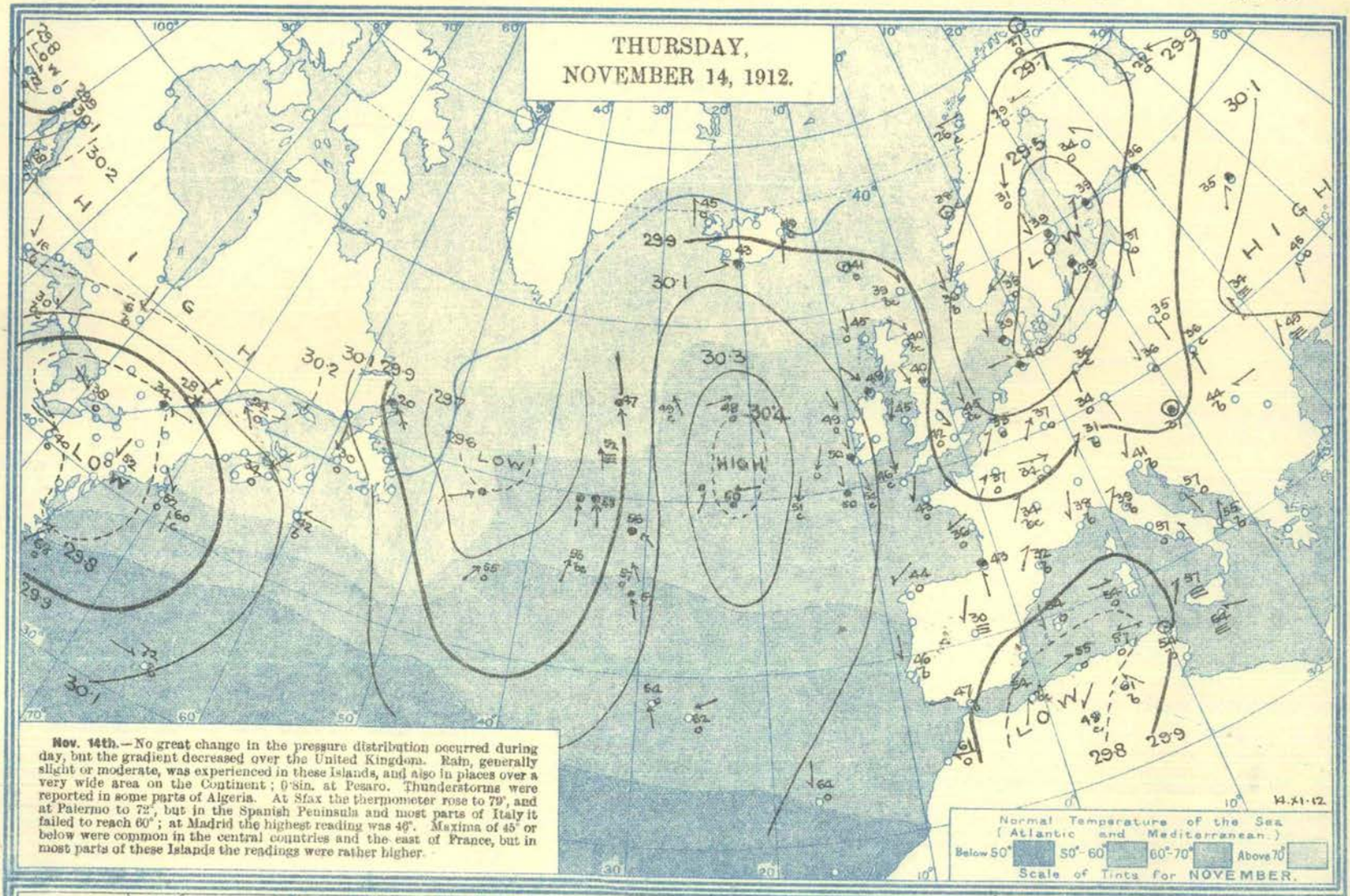


Nov. 12th.—A depression over Germany travelled eastward and became less deep. The gradient continued steep over these Islands, and strong winds or gales from the Northward or North-Westward were again experienced, with occasional rain or hail. Rain was general in most Continental regions; about 1·0in. at Dunkirk and Biarritz, and 0·7in. at Buda-Pesth and Lesina. A thunderstorm occurred at Guernsey and Brest, and snow at Limoges. Temperature remained below 45° at many of our own stations, and also in the east of France, and below 40° in several parts of central Europe. At a few places in the extreme south the thermometer touched 70°.



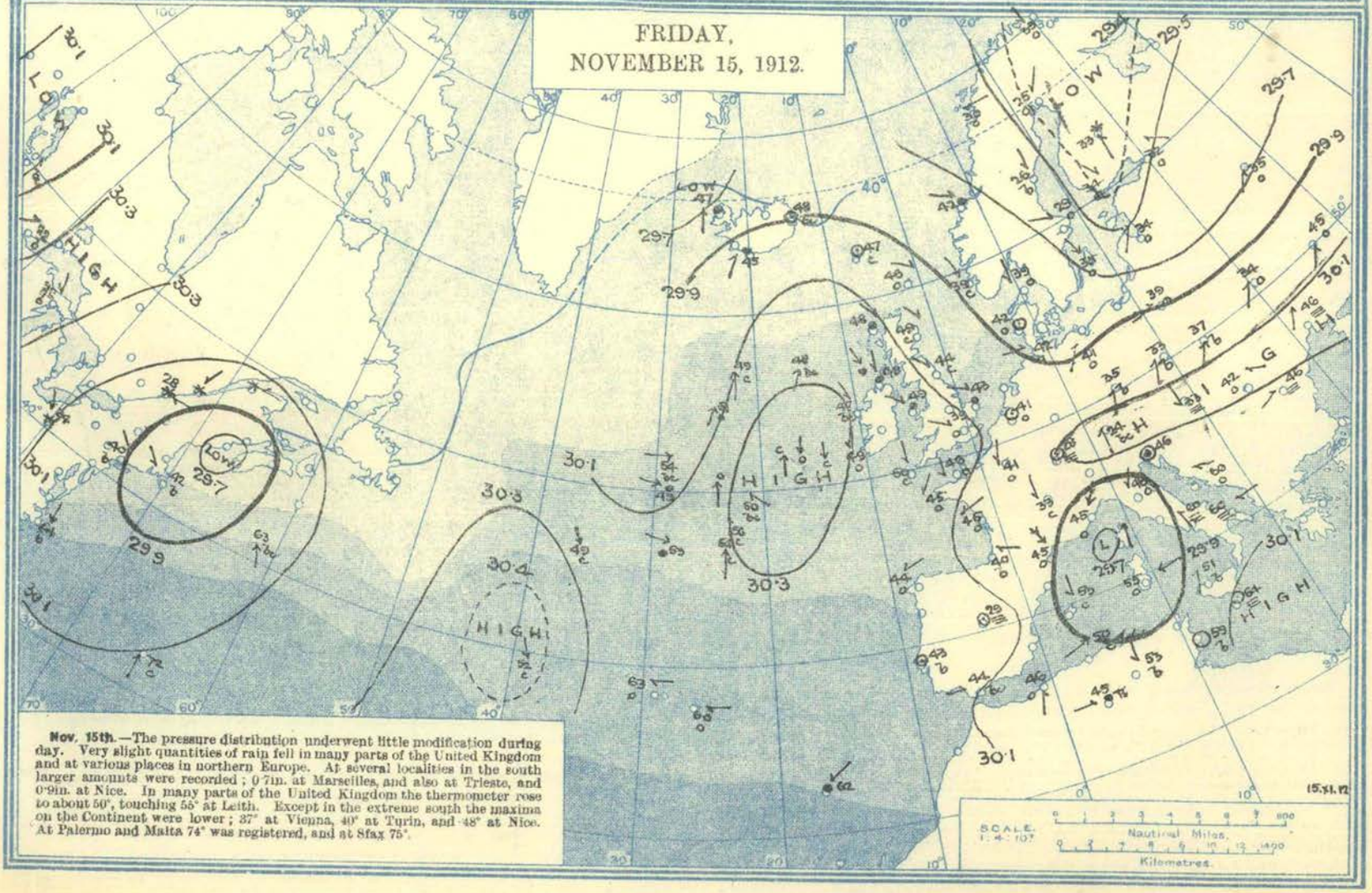
Nov. 13th.—The depression over the Baltic became less deep during day, and the force of the Northerly wind decreased somewhat in most parts of the British Isles. About 0·5in of rain fell in the east of England, and smaller quantities in most other parts of these Islands. Rain was also experienced over the greater part of the Continent; 0·6in. at Trieste, and 0·8in. (with thunder and lightning), at Biarritz. Temperature rose to 45° or above in many parts of this country and France, but remained below it in central Europe and at Turin, and only touched 50° at Florence. At Malta the maximum was 68°, at Tunis 70°, and at Sfax 77°.

THURSDAY, NOVEMBER 14, 1912.

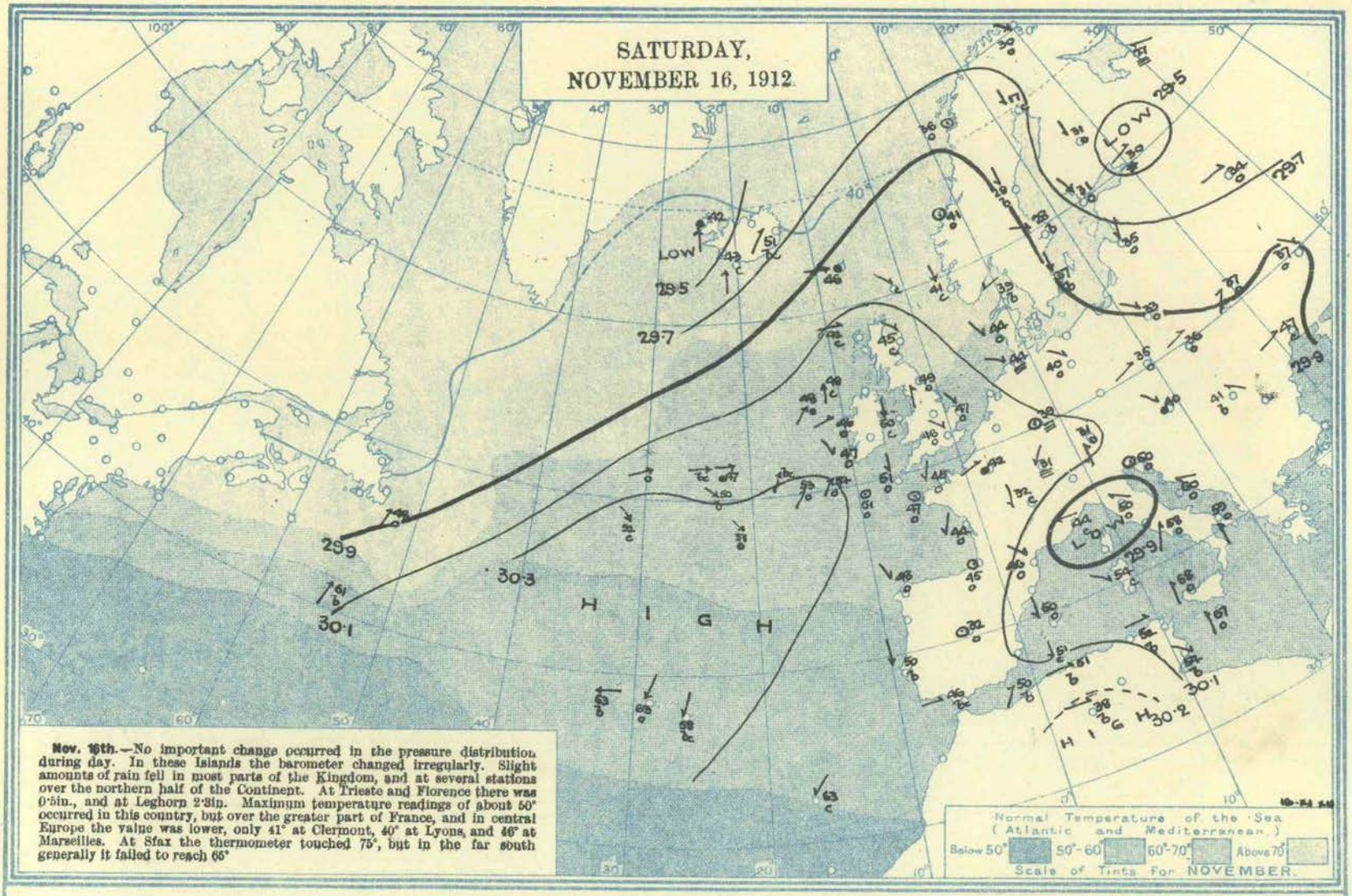


Nov. 14th.—No great change in the pressure distribution occurred during day, but the gradient decreased over the United Kingdom. Rain, generally slight or moderate, was experienced in these Islands, and also in places over a very wide area on the Continent; 0·8in. at Pesaro. Thunderstorms were reported in some parts of Algeria. At Sfax the thermometer rose to 79°, and at Palermo to 72°, but in the Spanish Peninsula and most parts of Italy it failed to reach 60°; at Madrid the highest reading was 46°. Maxima of 45° or below were common in the central countries and the east of France, but in most parts of these Islands the readings were rather higher.

FRIDAY, NOVEMBER 15, 1912.

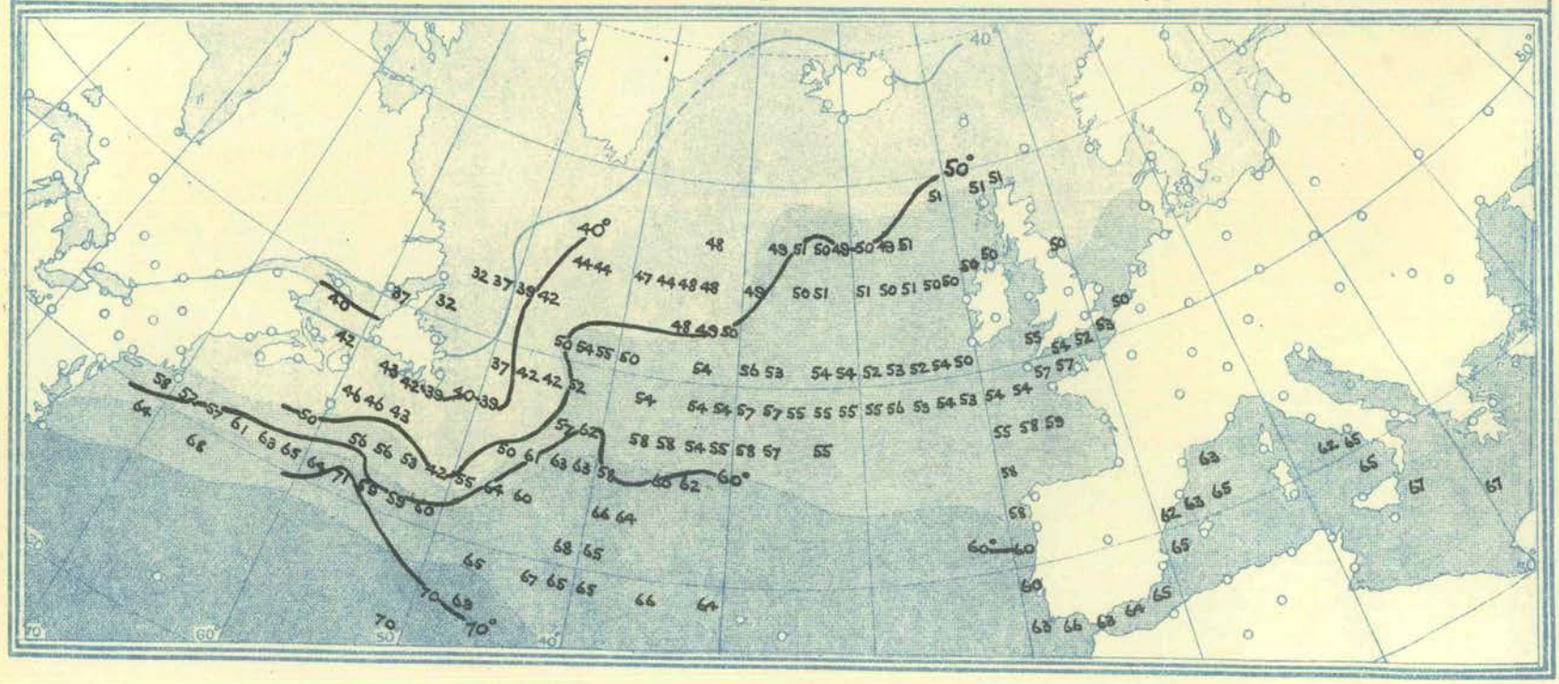


Nov. 15th.—The pressure distribution underwent little modification during day. Very slight quantities of rain fell in many parts of the United Kingdom and at various places in northern Europe. At several localities in the south larger amounts were recorded; 0·7in. at Marseilles, and also at Trieste, and 0·9in. at Nice. In many parts of the United Kingdom the thermometer rose to about 50°, touching 55° at Leith. Except in the extreme south the maxima on the Continent were lower; 37° at Vienna, 40° at Turin, and 48° at Nice. At Palermo and Malta 74° was registered, and at Sfax 75°.



Nov. 16th.—No important change occurred in the pressure distribution during day. In these Islands the barometer changed irregularly. Slight amounts of rain fell in most parts of the Kingdom, and at several stations over the northern half of the Continent. At Trieste and Florence there was 0·5in., and at Leghorn 2·3in. Maximum temperature readings of about 50° occurred in this country, but over the greater part of France, and in central Europe the value was lower, only 41° at Clermont, 40° at Lyons, and 46° at Marseilles. At Sfax the thermometer touched 75°, but in the far south generally it failed to reach 65°

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 16TH. NOVEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⇀ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ☰ = fog; ● = rain; ▲ = hail; ✳ = snow; ϟ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) } No. 47. FORTY-SEVENTH WEEK, SUNDAY, NOVEMBER 17TH, TO SATURDAY, NOVEMBER 23RD, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. As a whole the conditions were dull and unsettled. Rain fell in slight or moderate quantities daily at many stations in the west and north, and on several days in most other parts of the Kingdom. Some localities in the east and south of Britain remained dry, however, throughout the greater part of the week, and at Donaghadee rain fell on only one day.

Temperature was above the average very generally, the greatest excess being a little over 4°·5 in Ireland, and the smallest 1°·5 in England S.E. The highest of the maxima, which occurred late in the period, ranged from 60° in Ireland S. to 56° in several districts, and to 55° in Scotland E. The lowest of the minima were registered during the first half of the week, and ranged from 22° in Scotland E. to 36° in Ireland S., and to 42° in the English Channel. As a rule the minima were some degrees above the normal. The lowest grass readings reported were 17° at Newton Rigg, 18° at Crathes, 19° at Balmoral and 20° at Hampstead. The temperature of the soil continued below the average in most parts of the country at a depth of 4 feet, but, except at Clacton-on-Sea, it was above it at a depth of 1 foot.

Mean Temperature of the Sea. As a rule the water was warmer than during the corresponding week of last year—as much as 4° at some south-western stations, but on some parts of the south-east, east, and north-east coasts, and also on the west coast of Scotland it was colder. The means for the week ranged from 53° at Plymouth, and 52° at Newquay and Seafield to 42° at Scarborough.

Rainfall exceeded the average in Scotland N., but was less elsewhere. At Glencarron there was a fall of 1·07 in. on the 19th. A various places in the north-east, and at a few in the south-west, as well as at Donaghadee, the total fall was less than 0·1 in.

Bright Sunshine was below the normal except in Scotland N. and E. In Scotland E. the percentage of the possible duration was 31 and the daily mean 2·4 hours. In Ireland, and the south-west, east, and midland counties of England the daily mean was less than an hour. In England E. (where the possible daily duration was over 8 hours) the actual daily mean was no more than 0·7 hour.

Barometer and Wind. The pressure distribution was mainly of a westerly type, and the direction of the wind varied between South-West and North-West. Generally the South-Westerly current was of moderate strength, but that from West, veering to North-West, blew very strongly on the 19th and 20th over the northern and western districts, reaching the force of a gale on several exposed parts of the coast. The high pressure system, which at first lay between the Azores and Portugal, gradually drifted east-north-eastward, until at the end of the period it was situated near central Europe.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 187.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Heavy	Light	Light	Moderate	Light	Light	Moderate	Moderate	Light	Light	Light	Light
	Sunshine ...	Moderate	Abundant	Moderate	Scanty	Scanty	Scanty	Moderate	Moderate	Scanty	Scanty	Very scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 12 weeks from Sept. 1st, 1912.	Warmth ...	1 * 6	3 * 4	3 * 4	0 * 5	3 * 4	0 * 6	3 * 5	3 * 6	2 * 5	4 * 4	3 * 3	1 * 6
	Rainfall ...	4 * 5	5 * 4	4 * 5	5 * 6	2 * 8	3 * 9	2 * 6	1 * 5	3 * 8	2 * 6	1 * 8	3 * 7
	Sunshine ...	3 * 8	3 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	4 * 5	4 * 6	3 * 5	1 * 5	4 * 6

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ..	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(27356—24.) Wt. 173—814. 450. 11/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week.			Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees).		Grass Min.		Earth 1 ft.		Earth 4 ft.		No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
					Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°	Ground Frosts.	Lowest Reading.	Mean	Difference from Average.	Mean.	Difference from Average.								
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*51*	*21, 22*	*37*	*18th*	*47·1*	*41·3*	*44·2*	—	*18*	*2*							*7*	*1·41*	—	*0·6*	—	*9*	—	*Baltasound.*
a, Islands .. *a* Lerwick ..	50	21, 22	38	19th	46·9	41·6	44·3	+ 1·8	18	1	•	•	•	•	•	•	7	1·22	—	0·8	- 0·3	11	- 4	Deerness.
a Stornoway ..	53	22nd	39	18, 19	49·0	42·0	45·5	+ 3·0	25	0	•	•	•	•	•	•	7	1·26	- 0·09	1·2	- 0·1	16	- 1	Stornoway.
a Castlebay, Barra Isd.	*51*	*21-23*	*42*	*18, 20*	*49·7*	*44·6*	*47·2*	+ *3·0*	*36*	*0*							7	*0·38*	—	*0·8*	—	*11*	—	*Castlebay.*
b, Mainland. *a* Wick ..	53	22nd	35	19th	46·9	39·0	43·0	+ 1·4	20	8	•	•	•	•	•	•	6	0·65	0·00	•	•	•	•	•
p Strathpeffer ..	56	22nd	34	18, 19	49·4	39·6	44·5	+ 3·9	28	7	•	•	•	•	•	•	5	0·66	0·00	1·6	+ 0·4	22	+ 5	Strathpeffer.
p Glencarron ..	50	21, 22	39	17-20	46·7	40·7	43·7	+ 3·3	17	4	•	•	•	•	•	•	7	3·48	+ 1·35	•	•	•	•	•
p Fort Augustus..	53	21, 22	33	19th	48·7	39·7	44·2	+ 3·0	25	6	•	•	•	•	•	•	7	1·16	+ 0·15	0·2	- 0·3	3	- 4	Fort Augustus.
p Fort William ..	52	21st	38	18th	48·0	41·4	44·7	+ 2·3	21	2	•	•	•	•	•	•	7	2·09	+ 0·16	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. S	55	22nd	36	17, 18, 19	49·9	40·6	45·3	+ 3·6	29	4	4	18	40·5	+0·5	43·9	-1·0	—	—	—	2·8	—	37	—	Crathes S.
a Nairn	55	22nd	36	18, 19	48·1	39·4	43·8	+ 3·0	24	7	•	•	•	•	•	•	5	0·21	- 0·26	1·7	—	23	—	Nairn.
a Aberdeen ..	54	22nd	32	18th	48·4	37·7	43·1	+ 1·5	26	12	•	•	•	•	44·7	-0·2	1	0·04	- 0·63	2·3	+ 0·6	31	+ 8	Aberdeen.
a Balmoral ..	53	21, 22, 23	22	18th	50·3	33·3	41·8	+ 4·0	23	36	3	19	•	•	•	•	4	0·12	- 0·74	•	•	•	•	Balmoral.
p Crieff	54	21, 22	33	18, 19	49·6	38·1	43·9	+ 3·1	30	11	•	•	•	•	•	•	4	0·14	- 0·91	3·4	—	45	—	Balruddery.
a Leith	55	23rd	33	18th	50·6	42·3	46·5	+ 3·7	32	0	•	•	•	•	•	•	4	0·10	- 0·35	•	•	•	•	•
p West Linton .. S	50	21, 22, 23	29	19th	46·7	37·0	41·9	+ 2·3	13	21	4	21	•	•	•	•	4	0·51	—	*0·9*	—	*12*	—	*West Linton.*
p Marchmont .. S	53	21, 22	28	18th	48·6	37·1	42·9	+ 2·6	27	14	2	24	40·1	+1·5	•	•	1	0·05	- 0·64	1·6	+ 0·1	21	+ 1	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	54	21, 22, 23	30	19th	50·4	39·4	44·9	+ 2·9	31	7	2	28	40·7	+2·4	44·5	+1·0	3	0·06	- 0·68	2·3	—	29	—	Cockle Park.
a Shields	56	23rd	32	19th	50·4	39·0	44·7	+ 1·9	32	8	•	•	•	•	•	•	3	0·06	- 0·41	•	•	•	•	*Newcastle.*
p Durham	54	22, 23	30	18th	49·7	37·9	43·8	+ 2·4	30	11	2	25	•	•	•	•	3	0·07	- 0·46	2·1	+ 0·5	27	+ 6	Durham.
a, North .. *p* Rounton ..	52	22, 23	31	19th	49·1	37·9	43·5	+ 2·1	28	11	5	25	41·7	•	•	•	4	0·19	- 0·27	•	•	•	•	Rounton.
a West Witton ..	*53*	*23rd*	*32*	*18th*	*49·0*	*40·0*	*44·5*	—	*26*	*6*	2	27	42·3	•	•	45·1	*3*	*0·14*	—	•	•	•	•	*West Witton.*
p Scarborough ..	53	22nd	36	18, 19	49·4	41·0	45·2	+ 1·9	27	3	•	•	•	•	•	47·5†	4	0·12	- 0·44	1·9	—	24	—	Scarborough.
p York	54	22nd	33	18th	50·6	39·6	45·1	+ 2·7	32	7	•	•	44·3	+1·3	47·8	-0·1	4	0·14	- 0·32	1·3	+ 0·1	16	+ 2	York.
b South .. *a* Spurn Head ..	51	23rd	36	19th	48·0	40·6	44·3	+ 0·6	22	4	2	24	43·0	+1·8	47·0	-1·2	3	0·20	- 0·21	*0·9*	—	*11*	—	*Hull.*
a Lincoln	52	23rd	31	19th	49·0	38·9	44·0	+ 2·3	27	9	•	•	41·7	+0·8	46·5	-1·1	3	0·18	- 0·24	•	•	•	•	Lincoln.
a Fulbeck	57	22nd	31	19th	49·6	38·3	44·0	+ 2·8	30	10	3	24	44·2	+2·8	48·2	-0·3	5	0·16	- 0·28	0·7	—	9	—	Rauceby.
3. ENGLAND, E.											0	31	44·6	+1·6	48·6	+0·3	—	—	—	1·1	—	14	—	Skegness.
p Cromer	53	22nd	32	19th	48·6	38·0	43·3	+ 1·1	26	11	•	•	•	•	•	•	—	—	—	*0·8*	—	*10*	—	*Lowestoft.*
p Little Massingham ..	*51*	*22nd*	*32*	*19th*	*46·9*	*39·1*	*43·0*	+ *1·3*	*19*	*8*	2	25	•	•	•	•	6	0·24	—	1·2	—	15	—	Cromer.
a, North .. *a* Yarmouth ..	54	22nd	32	19, 20	48·1	38·7	43·4	+ 0·3	24	9	•	•	43·9	+2·6	48·7	+0·6	*5*	*0·38*	—	*0·8*	•	*10*	•	*Little Massingham.*
a Norwich	54	22nd	32	19th	48·3	39·0	43·7	+ 1·3	25	8	2	26	43·3	•	•	•	5	0·33	- 0·19	0·8	—	10	—	Yarmouth.
p Geldeston	55	22nd	33	19th	48·6	38·7	43·7	+ 0·7	26	9	•	•	•	•	•	•	5	0·34	—	*0·8*	—	*10*	—	*Norwich.*
p Cambridge	55	22nd	28	19th	48·9	37·6	43·3	+ 1·0	28	12	2	25	44·3	+2·2	48·8	+0·4	5	0·20	- 0·31	0·7	- 2	15	-15	Geldeston.
a Felixstowe ..	*54*	*22nd*	*33*	*19, 20*	*48·9*	*39·1*	*44·0*	+ *0·1*	*26*	*8*	2	25	44·3	+2·2	48·8	+0·4	4	0·38	- 0·04	0·7	- 1·1	8	-13	Cambridge.
b, South .. *a* Clacton-on-Sea ..	54	22nd	33	20th	47·9	39·3	43·6	0·0	23	8	0	32	45·5	-0·4	49·1	-0·5	*5*	*0·24*	—	*0·9*	—	*11*	—	*Felixstowe.*
a Rothamsted ..	55	22nd	32	18th	50·0	36·7	43·4	+ 1·4	32	15	•	•	•	•	•	•	3	0·20	—	0·7	—	8	—	Clacton.
a Shoeburyness ..	*55*	*22nd*	*34*	*19th*	*49·6*	*40·0*	*44·8*	+ *0·8*	*28*	*6*	4	26	46·1	+2·7	•	•	5	0·23	- 0·37	0·4	- 1·4	5	-17	Rothamsted.
p Tottenham	56	22nd	34	19th	50·4	42·0	46·2	+ 2·7	29	0	2	28	•	•	49·7	+0·1	*4*	*0·26*	—	*0·7*	—	*8*	—	*Southend.*
4. MIDLAND COUNTIES.																	2	0·21	—	0·2	—	2	—	Tottenham.
a Harrogate	52	23rd	33	19th	48·7	40·1	44·4	+ 3·2	25	5	1	27	43·0	+2·9	46·7	+0·2	—	—	—	*1·1*	—	*14*	—	*Huddersfield.*
a Bawtry	54	23rd	30	19th	50·1	39·4	44·8	+ 3·0	31	7	2	28	43·5	+1·6	45·4	+0·6	3	0·19	- 0·43	1·6	—	20	—	Harrogate.
p Buxton	*49*	*21, 23*	*36*	*19th*	*46·6*	*40·9*	*43·8*	+ *4·0*	*17*	*3*	4	22	43·0	•	46·5	•	3	0·09	- 0·36	0·1	- 1·3	1	-16	Worksop.
a East .. *a* Nottingham ..	54	21st	32	19th	50·7	38·7	44·7	+ 2·5	33	9	1	29	42·7	+2·7	46·6	-0·3	*6*	*0·60*	- *0·50*	*0·8*	—	*10*	—	*Buxton.*
p Birmingham, Edgbsn.	52	21st	38	19th	48·7	42·1	45·4	+ 3·3	24	0	1	28	43·0	+2·8	46·1	-0·1	4	0·15	- 0·29	0·1	—	1	—	Nottingham.
a Raunds	51	17, 22, 23	31	19th	48·9	38·1	43·5	+ 1·8	27	11	2	22	44·9	+2·5	48·0	-0·2	5	0·20	- 0·33	0·3	—	4	—	Birmingham.
a Oxford	54	21st	35	19th	50·4	40·3	45·4	+ 2·7	31	5	5	25	44·4	•	50·0	•	5	0·17	—	•	•	•	•	Raunds.
a Cheadle	52	23rd	37	17, 18, 23	48·6	39·6	44·1	+ 3·1	25	7	2	29	44·0	+2·2	47·2	-0·4	3	0·13	- 0·40	0·4	- 1·4	5	-16	Oxford.
p Shrewsbury ..	55	21, 23	33	19th	52·4	41·0	46·7	+ 3·6	37	3	2	28	•	•	•	•	—	—	—	1·5	—	19	—	Sheffield.
b, West .. *a* Hereford ..	55	21st	31	19th	51·9	40·4	46·2	+ 3·7	36	4	1	29	•	•	•	•	4	0·33	- 0·32	•	•	•	•	Cheadle.
a Cirencester ..	53	21st	30	18, 19	49·9	38·1	44·0	+ 2·5	30	11	1	27	•	•	•	•	4	0·33	—	•	•	•	•	Shrewsbury.
a Bath	57	21st	28	19th	53·7	39·3	46·5	+ 3·1	43	8	2	28	44·6	•	47·6	•	4	0·12	- 0·43	•	•	•	•	Hereford.
5. ENGLAND, S.E.											•	•	45·3	+0·6	50·4	+0·1	4	0·10	- 0·56	1·1	- 0·7	13	- 8	Cirencester.
p Kew	53	22nd	33	18th	49·6	41·1	45·4	+ 2·4	28	3	1	30	45·3	+2·1	49·9	+1·0	3	0·12	- 0·57	1·1	—	13	—	Bath.
a Marlborough ..	53	21st	29	19th	50·4	36·3	43·4	+ 2·0	34	16	3	22	44·7	+2·3	48·9	0·0	—	—	—	•	•	•	•	Canterbury.
a Margate	52	23rd	36	20th	48·7	41·1	44·9	+ 0·5	24	3	4	22	•	•	48·7	•	5	0·25	- 0·22	0·5	- 1·0	6	-12	Kew.
a Wisley, Surrey ..	55	22nd	31	18th	49·6	39·0	44·3	+ 0·6	29	8	•	•	46·3	+1·6	48·6	+0·6	5	0·25	- 0·48	0·7	- 0·8	8	-10	Marlborough.
a Swarraton ..	53	21st	28	19th	50·1	36·0	43·1	+ 0·9	33	17	2	24	44·4	+2·0	48·0	-0·3	5	0·25	- 0·27	0·5	- 1·4	6	-16	Margate.
a Tunbridge Wells ..	52	22nd	34	18, 19	48·4	39·6	44·0	+ 1·1	24	7	2	28	45·4	+2·3	50·0	+0·1	4	0·36	—	0·7	—	8	—	Wisley
a Dungeness ..	52	23rd	36	18, 19, 20	49·1	38·7	43·9	- 1·4	27	9	2	27	44·4	+2·7	•	•	5	0·60	- 0·17	1·2	- 0·9	14	-10	Tunbridge Wells.
p Hastings	54	22, 23	34	19th	50·1	41·7	45·9	+ 0·9	29	1	•	•	•	•	•	•	5	0·15	- 0·42	0·8	—	10	—	Littlestone.
p Southampton ..	56	21st	32	19th	51·9	41·0	46·5	+ 1·9	36	3	1	30	45·3	•	49·4	•	5	0·37	- 0·34	*0·9*	- *1·3*	*11*	- *16*	*Hastings.*
a Ventnor	56	22nd	39	19th	52·6	45·0	48·8	+ 1·6	48	0	2	26	•	•	•	•	3	0·26	- 0·47	0·8	- 1·1	10	-14	Southampton
											•	•	•	•	•	•	3	0·18	- 0·57	1·4	- 0·7	16	- 8	Ventnor.
											2	28	46·0	+1·2	49·7	-0·6	—	—	—	*1·2*	—	*14*	—	*Portsmouth.*
											•	•	46·8	•	50·7	•	—	—	—	1·5	- 0·5	17	- 6	Eastbourne.
											•	•	45·7	•	47·8	•	—	—	—	*0·8*	—	*9*	—	*Bournemouth.*
LONDON.											0	35	•	•	48·9	•	—	—	—	*1·4*	- *0·7*	*16*	- *8*	*Brighton.*
a Westminster ..	*54*	*22nd*	*35*	*18th*	*50·1*	*40·9*	*45·5*	+ *2·1*	*29*	*3*	0	31	•	•	•	•	*3*	*0·21*	- *0·30*	*0·2*	- *0·6*	*2*	- *7*	*Westminster.*
a Greenwich ..	*56*	*22nd*	*34*	*18th*	*50·1*	*41·0*	*45·6*	+ *2·2*	*29*	*3*	2	25	•	•	•	•	*4*	*0·26*	- *0·25*	*0·5*	- *0·9*	*6*	- *11*	*Greenwich.*
a Hampstead ..	*53*	*22nd*	*34*	*19th*	*49·3*	*40·9*	*45·1*	—	*26*	*3*	4	20	•	•	•	•	*3*	*0·21*	—	*0·3*	—	*4*	—	*Hampstead.*
a Camden Square ..	*53*	*22nd*	*34*	*19th*	*49·6*	*40·4*	*45·0*	—	*28*	*4*	2	28	•	•	•	•	*4*	*0·22*	—	*0·2*	—	*2*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	52	22nd	35	19th	48·9	42·0	45·5	+ 2·7	25	0	•	•	•	•	•	•	7	1·45	+ 0·18	•	•	•	•	•
p Glasgow	52	21, 22, 23	37	18th	48·9	42·6	45·8	+ 3·6	27	0	2	29	•	•	•	•	5	0·50	- 0·36	0·6	- 0·1	8	- 2	Glasgow.
p Rothesay .. *b*.	56	22nd	35	18th	50·7	42·0	46·4	+ 3·2	31	0	•	•	•	•	46·8	+1·1	7	1·19	0·00	•	•	•	•	•
a Kilmarnock ..	53	22nd	33	19, 20	50·0	40·7	45·4	+ 3·4	29	4	•	•	•	•	•	•	7	0·70	—	*0·6*	—	*8*	—	*Kilmarnock.*
a Colmonell ..	55	22nd	35	18, 19	51·1	42·7	46·9	+ 4·9	34	0	0	31	•	•	•	•	5	0·76	- 0·49	•	•	•	•	•
p Dumfries ..	53	21, 22	28	19th	49·0	39·6	44·3	+ 2·3	26	7	2	23	42·4	•	46·0	•	5	0·24	- 0·66	*0·8*	—	*10*	—	*Dumfries.*
p Cally, Gatehouse *b*.	53	22nd	30	18th	49·6	37·7	43·7	+ 1·8	30	12	•	•	•	•	•	•	6	0·91	- 0·36	•	•	•	•	•
b I. OF MAN.																								
p Douglas	53	21, 22	39	18th	50·1	43·9	47·0	+ 2·3	35	0	1	30	•	•	•	•	7	0·63	- 0·47	2·0	+ 0·1	25	+ 2	Douglas.
7. *a*, ENGLAND, N.W.											1	27	42·7	+3·1	46·2	+0·1	—	—	—	*0·5*	—	*6*	—	*Burnley.*
p Aspatria	53	22nd	31	18th	48·7	40·4	44·6	+ 2·8	25	4	0	32	•	•	•	•	—	—	—	1·4	—	17	—	Hoylake.
p Newton Rigg ..	53	23rd	29	18th	48·7	38·4	43·6	+ 3·3	26	10	2	27	44·2	•	47·8	•	4	0·94	- 0·04	1·2	—	15	—	Aspatria.
p Stonyhurst ..	54	21st	32	19th	49·3	41·1	45·2	+ 3·2	26	3	5	17	42·5	+1·0	45·6	-0·3	7	0·32	- 0·54	1·2	- 0·3	15	- 4	Newton Rigg.
p Blackpool	51	21, 22, 23	33	18th	49·3	43·4	46·4	+ 3·1	31	0	1	28	•	•	•	•	7	1·62	+ 0·58	0·8	- 0·5	10	- 7	Stonyhurst.
p Manchester (Whit. Pk.)	*52*	*21, 22, 23*	*39*	*19th*	*50·3*	*43·9*	*47·1*	+ *4·8*	*36*	*0*	2	27	45·5	•	48·7	•	6	0·51	- 0·30	1·0	- 0·4	12	- 5	Blackpool.
a Liverpool (Bidston) ..	55	23rd	42	18, 19	50·1	44·6	47·4	+ 4·7	38	0	*1*	*30*	•	•	•	•	*4*	*0·46*	—	*0·4*	—	*5*	—	*Whit. Park.*
a Hawarden Bridge ..	57	23rd	42	18, 19	52·6	45·9	49·3	+ 4·9	51	0	•	•	•	•	•	•	6	0·47	- 0·12	*1·4*	—	*17*	—	*Liverpool.*
											2	26	44·1	+4·1	46·5	+0·8	6	0·35	- 0·18	*1·1*	- *0·3*	*14*	- *3*	*Southport.*
b, NORTH WALES.											0	33	43·9	+3·1	48·0	-0·3	—	—	—	*0·2*	—	*3*	—	*Manchester (City).*
p Llandudno	55	23rd	43	19th	51·0	45·9	48·5	+ 2·9	46	0	•	•	•	•	•	•	6	0·41	- 0·29	1·4	- 0·3	17	- 3	Llandudno.
a Holyhead	54	21st	45	19th	52·1	46·9	49·5	+ 3·4	53	0	•	•	•	•	•	•	7	0·85	- 0·13	1·2	—	15	—	Aberdovey.
p Bettws-y-Coed ..	54	22nd	39	19th	50·3	43·0	46·7	+ 1·3	33	0	0	38	45·4	+3·3	47·6	+0·2	6	0·84	—	1·4	—	17	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	53	21st	34	19th	50·4	41·3	45·9	+ 4·4	30	2	0	32	44·8	+1·7	48·1	−0·8	6	0·77	—	0·8	—	10	—	Llangammarch
a Pembroke	55	21st	46	19th	53·0	48·1	50·6	+ 3·3	60	0	*	*	*	*	*	*	4	0·51	− 0·39	0·9	− 1·0	11	−12	Pembroke.[Wells
p Cardiff	56	21st	38	19th	52·1	42·8	47·5	+ 4·1	39	0	1	29	45·4	+3·3	48·7	+0·4	4	0·17	− 0·79	*1·3*	—	*16*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	56	21st	36	18th	52·4	43·3	47·9	+ 3·8	41	0	2	27	*	*	*	*	4	0·09	− 0·66	*1·3*	—	*16*	—	*Clifton.*
a Shaftesbury	51	22nd	34	19, 20	49·1	39·7	44·4	+ 1·6	26	6	*	*	44·2	*	48·7	*	4	0·28	− 0·53	*	*	*	*	Shaftesbury.
a Arlington	51	20-22	37	18th	49·9	42·4	46·2	+ 2·5	29	0	*	*	49·3	*	*	*	5	1·12	− 0·23	0·9	− 1·5	11	−17	Newquay.
a Cullompton	54	21st	35	18th	52·7	43·1	47·9	+ 3·9	41	0	2	29	46·7	*	*	*	5	0·16	− 0·69	0·3	− 1·4	4	−17	Cullompton.
a Portland	54	21, 22	42	19th	52·9	46·9	49·9	+ 3·1	55	0	*	*	*	*	*	*	1	0·08	—	*0·9*	—	*11*	—	*Weymouth.*
p Plymouth	54	21st	40	19th	52·5	46·0	49·3	+ 2·8	51	0	1	30	47·2	+1·6	*	*	6	0·48	− 0·40	0·3	− 1·7	4	−20	Plymouth.
p Falmouth	54	21st	45	19th	52·3	47·9	50·1	+ 2·5	57	0	*	*	*	*	*	*	5	0·46	− 0·70	1·5	− 0·8	17	− 9	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	53	22nd	42	17, 18	50·6	44·3	47·5	+ 3·0	39	0	*	*	*	*	*	*	7	0·41	− 0·34	*	*	*	*	* *
a Blacksod Point ..	54	21, 22	43	17th	52·0	46·1	49·1	+ 3·1	50	0	*	*	*	*	*	*	5	0·58	− 0·68	*	*	*	*	* *
p Markree Castle ..	56	21st	37	17th	52·6	43·9	48·3	+ 5·4	44	0	1	30	47·3	*	49·1	*	6	0·54	− 0·46	0·5	− 1·1	6	−14	Markree Castle.
a Birr Castle	56	23rd	36	17th	52·4	43·4	47·9	+ 4·9	41	0	*	*	*	*	*	*	5	0·35	− 0·40	*0·4*	*− 1·6*	*5*	*−19*	*Birr Castle.*
b, East .. *p* Armagh	55	22nd	38	17, 18	51·1	42·4	46·8	+ 4·0	34	0	0	31	45·8	+3·4	48·1	+0·4	4	0·23	− 0·47	1·1	− 0·6	14	− 8	Armagh.
a Donaghadee	55	22nd	34	18, 19	51·6	41·6	46·6	+ 2·3	34	1	*	*	*	*	*	*	1	0·07	− 0·67	*	*	*	*	* *
											0	35	46·6	+2·8	48·1	0·0	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											0	32	*	*	*	*	—	—	—	1·3	− 0·9	16	−11	Phœnix Park.
a, East .. *p* Dublin, City	56	23rd	41	17, 18	52·1	45·1	48·6	+ 3·3	46	0	0	38	*	*	*	*	4	0·16	− 0·48	*	*	*	*	Dublin City.
a Kilkenny	56	21, 23	38	17th	52·6	44·4	48·5	+ 5·2	46	0	*	*	*	*	*	*	4	0·21	− 0·55	*	*	*	*	* *
a Waterford	56	21st	40	17th	52·6	44·4	48·5	+ 3·8	46	0	*	*	*	*	*	*	4	0·30	− 0·63	*	*	*	*	* *
a Birr Castle	56	23rd	36	17th	52·4	43·4	47·9	+ 4·9	41	0	*	*	*	*	*	*	5	0·35	− 0·40	0·4	− 1·6	5	−19	Birr Castle.
a Foynes	58	21, 22	40	17th	53·0	46·7	49·9	+ 4·9	55	0	*	*	*	*	*	*	7	0·48	− 0·49	*	*	*	*	* *
b, West .. *a* Cahir	57	21st	39	17th	52·7	43·9	48·3	+ 3·7	44	0	*	*	*	*	*	*	7	0·52	—	*	*	*	*	* *
a Killarney	60	22nd	43	17th	54·6	47·4	51·0	+ 5·7	63	0	*	*	*	*	*	*	5	0·26	− 1·17	*	*	*	*	* *
a Valencia	56	21st	45	17th	53·6	48·6	51·1	+ 3·7	64	0	*	*	*	*	*	*	7	0·37	− 1·00	0·4	− 1·6	5	−20	Valencia.
a Roche's Point	58	21st	43	17, 18, 22	53·1	44·3	48·7	+ 2·0	47	0	*	*	*	*	*	*	5	0·39	− 0·69	1·0	—	12	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's .	55	18, 21	46	19th	53·4	48·0	50·7	+ 1·1	61	0	*	*	*	*	*	*	6	0·37	− 0·46	1·7	− 0·7	20	− 8	Scilly.
a Jersey, St. Aubins ..	58	21st	42	19th	54·9	46·0	50·5	+ 2·4	60	0	*	*	*	*	*	*	5	0·15	− 0·78	1·1	− 1·3	13	−15	St. Heliers.
a Guernsey (Villa Carey)	55	21st	44	19th	53·4	47·9	50·7	+ 2·2	61	0	0	33	49·1	+1·4	51·9	−0·1	5	0·46	− 0·59	0·5	− 1·4	6	−16	Guernsey.*

Additional Sunshine Means:—*Bognor, 1·0 hrs. 12 %; Ramsgate, 0·6 hrs. 7 %; Rhyl, 1·7 hrs. 21 %; Salcombe, 0·4 hrs. 5 %; Tenby, 1·1 hrs. (−0·9) 13 % (− 10 %); Torquay, 0·5 hrs. (−1·5) 6 % (− 18 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 23rd.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	46	45	45·9	−0·2	SCOTLAND, W. ..	Lamlash	50	48	48·7	+0·1
	Kirkwall	46	42	44·4	+1·2		Ballantrae	49	45	46·7	+1·4
	Wick	48	47	47·5	−0·8	ENGLAND, N.W. ..	Port Erin	51	50	50·2	+0·3
SCOTLAND, E. ..	Cromarty	47	42	44·2	+0·8		Newquay	52	52	52·0	+0·9
	Pennan Bay	46	45	45·4	+1·6	ENGLAND, S.W. ..	Scilly	53	50	51·6	—
	Aberdeen, Cove Bay	47	46	46·5	+1·3		Plymouth‡	54	52	53·1	+1·2
ENGLAND, N.E. ..	Burnmouth, Berwick	45	42	43·6	−1·1		Salcombe	53	49	51·1	0·0
	Scarborough	44	40	41·9	−4·0	IRELAND, N.W. ..	Sheephaven	49	45	47·2	−0·8
ENGLAND, E. ..	Shipwash Lightship	53	47	49·2	+0·9		Teelin	51	48	49·5	+1·4
	Margate‡	47	45	45·8	−0·1	IRELAND, S.W. ..	Cleggan	50	45	47·3	+0·9
ENGLAND, S.E. ..	Eastbourne‡	48	47	47·1	−0·7	IRELAND, E.	Seafield	54	50	52·0	+3·4
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-SEVENTH WEEK—November 17th to November 23rd, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	56	33	47·9	40·6	44·3	+ 3·2	22	+ 7	4	−17	7	+ 2	1·50	+0·22	1·0	0·0	13	0
Eastern.																		
1. SCOTLAND, EAST ...	55	22	49·0	38·2	43·7	+ 3·4	28	+ 14	11	−16	4	− 1	0·17	−0·47	2·4	+0·9	31	+12
2. ENGLAND, N.E.	57	30	49·6	39·2	44·4	+ 2·4	29	+ 11	8	− 9	4	0	0·13	−0·40	1·6	−0·1	20	− 2
3. ENGLAND, EAST ...	56	28	48·9	38·8	43·8	+ 2·0	26	+ 6	9	−11	4	0	0·27	−0·20	0·7	−1·1	8	−13
4. MIDLAND COUNTIES ...	57	28	50·4	39·7	45·1	+ 3·7	31	+ 13	6	−17	4	0	0·18	−0·32	0·8	−0·8	9	−10
5. ENGLAND, S.E.	56	28	50·1	40·0	45·1	+ 1·5	30	+ 4	6	− 8	4	0	0·30	−0·29	1·0	−0·8	12	−10
Western.																		
6. SCOTLAND, WEST ...	56	28	49·8	41·4	45·6	+ 2·9	28	+ 8	2	−13	6	+ 1	0·80	−0·39	1·3	−0·1	17	− 2
7. ENGLAND, N.W.	57	29	50·2	43·3	46·8	+ 3·8	34	+ 13	0	−13	6	+ 2	0·70	−0·09	1·2	−0·3	15	− 4
8. ENGLAND, S.W.	56	34	51·7	44·2	48·0	+ 3·4	42	+ 13	0	−11	4	− 1	0·41	−0·47	0·8	−1·1	10	−13
9. IRELAND, NORTH ...	56	34	51·7	43·6	47·7	+ 4·6	40	+ 19	0	−14	5	0	0·36	−0·54	0·8	−0·9	10	−12
10. IRELAND, SOUTH ...	60	36	53·0	45·4	49·2	+ 4·7	50	+ 21	0	−12	5	+ 1	0·34	−0·57	0·8	−1·3	9	−15
11. ENGLISH CHANNEL ...	58	42	53·9	47·3	50·6	+ 2·3	60	+ 14	0	− 1	5	0	0·33	−0·46	1·1	−1·1	13	−13

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 12 Weeks, September 1st to November 23rd, 1912.

0. SCOTLAND, NORTH ...	66	28	*	*	*	*	421	− 91	49	−43	59	− 1	12·52	−1·67	2·3	−0·1	22	− 1
Eastern.																		
1. SCOTLAND, EAST ...	72	21	*	*	*	*	468	− 74	115	− 6	45	− 5	8·17	+0·30	2·4	−0·5	23	− 4
2. ENGLAND, N.E.	70	27	*	*	*	*	552	− 90	44	−20	41	− 4	5·95	−0·85	2·9	−0·3	27	− 3
3. ENGLAND, EAST ...	69	26	*	*	*	*	622	−111	55	−20	40	− 4	5·97	−0·40	3·2	−0·4	30	− 4
4. MIDLAND COUNTIES ...	70	25	*	*	*	*	576	− 93	80	−12	30	−13	4·92	−1·91	2·7	−0·4	25	− 4
5. ENGLAND, S.E.	68	24	*	*	*	*	639	−188	43	− 6	33	−10	6·69	−1·16	3·5	−0·1	33	− 1
Western.																		
6. SCOTLAND, WEST ...	67	22	*	*	*	*	538	− 76	51	−14	46	− 5	10·41	−2·85	2·7	−0·2	26	− 2
7. ENGLAND, N.W.	66	26	*	*	*	*	589	−101	27	−20	41	− 7	7·88	−1·82	2·9	−0·1	27	0
8. ENGLAND, S.W.	72	21	*	*	*	*	665	−131	22	−15	36	−14	7·59	−3·34	3·3	−0·2	31	− 1
9. IRELAND, NORTH ...	67	21	*	*	*	*	617	− 27	28	−27	43	−12	6·38	−3·76	2·6	−0·3	25	− 3
10. IRELAND, SOUTH ...	72	21	*	*	*	*	711	− 38	20	−27	45	− 4	5·31	−4·67	3·0	−0·4	28	− 3
11. ENGLISH CHANNEL ...	68	36	*	*	*	*	920	−117	0	− 2	42	−12	7·92	−1·66	4·0	−0·2	37	− 2

THE YEAR.—Aggregates, &c., for the Period of 47 Weeks, December 31st, 1911, to November 23rd, 1912.

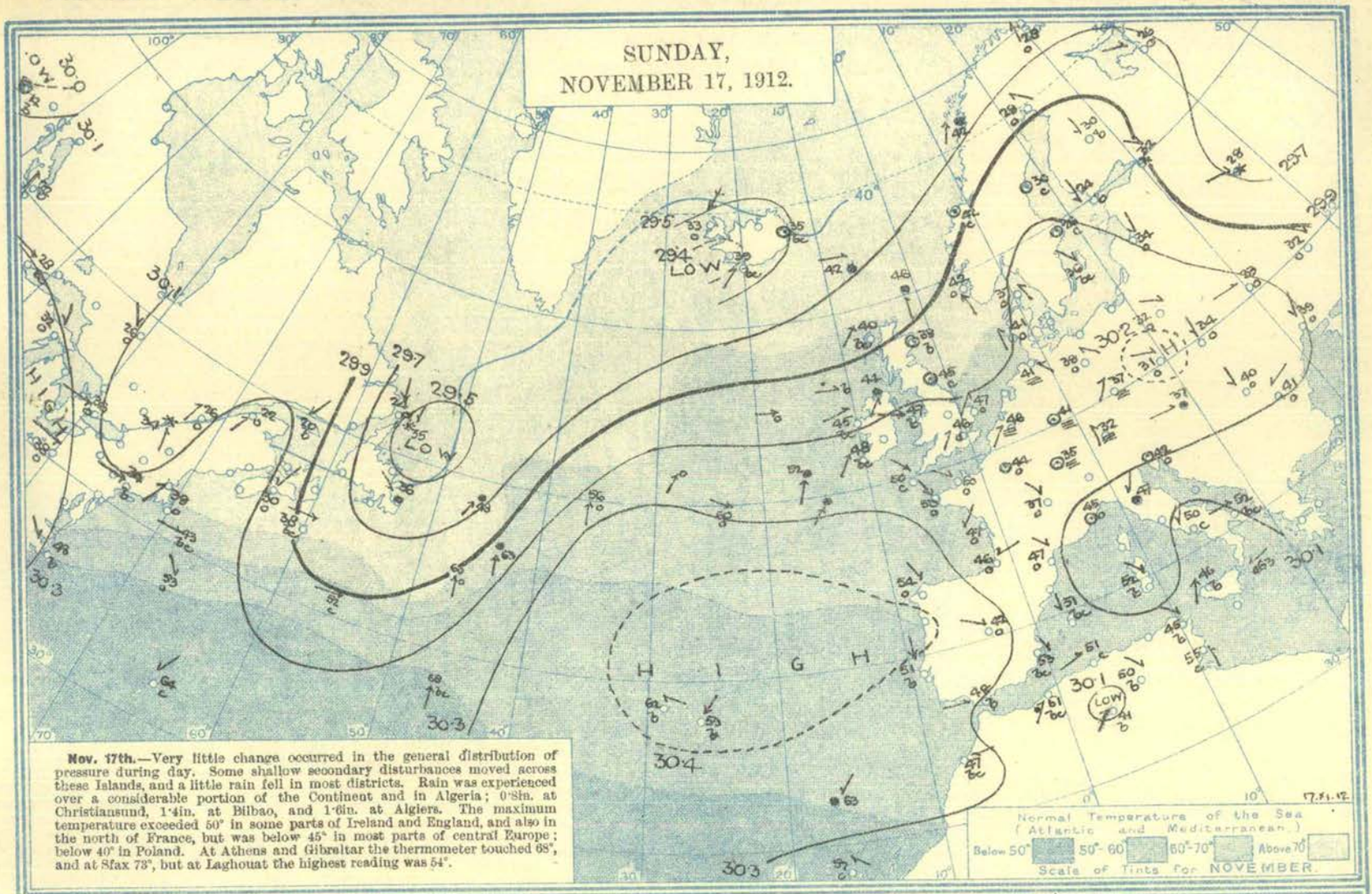
0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1907	−159	476	−173	219	− 1	43·17	− 2·43	3·0	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2137	−175	634	−107	192	+ 9	28·91	+ 1·47	3·0	−0·9	24	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	2543	− 49	417	−122	185	+20	28·47	+ 6·21	3·3	−1·0	26	− 8
3 ENGLAND, EAST ...	91	14	*	*	*	*	3056	+ 63	329	−267	174	+14	26·44	+ 5·16	4·1	−0·6	33	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2800	−105	453	−172	166	+ 8	30·33	+ 6·74	3·3	−0·8	27	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	3084	−162	261	−169	162	+ 9	28·05	+ 4·09	4·3	−0·4	34	− 4
Western.																		
6. SCOTLAND, WEST ...	83	12	*	*	*	*	2401	−116	380	−110	194	+ 3	39·79	− 2·32	3·4	−0·6	27	− 5
7. ENGLAND, N.W.	84	7	*	*	*	*	2641	−116	325	−108	186	+10	33·97	+ 3·06	3·6	−0·5	28	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2909	−179	211	−127	191	+16	40·61	+ 7·03	3·7	−0·9	30	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2467	−164	265	−135	188	−19	32·86	− 1·14	3·3	−0·5	26	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2869	−166	187	−119	216	+32	36·25	+ 1·09	3·4	−0·8	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3627	+ 4	44	− 67	195	+ 8	35·63	+ 7·37	4·7	−0·9	38	− 7

M.O., November 27, 1912

NOTES ON TABLE IV.

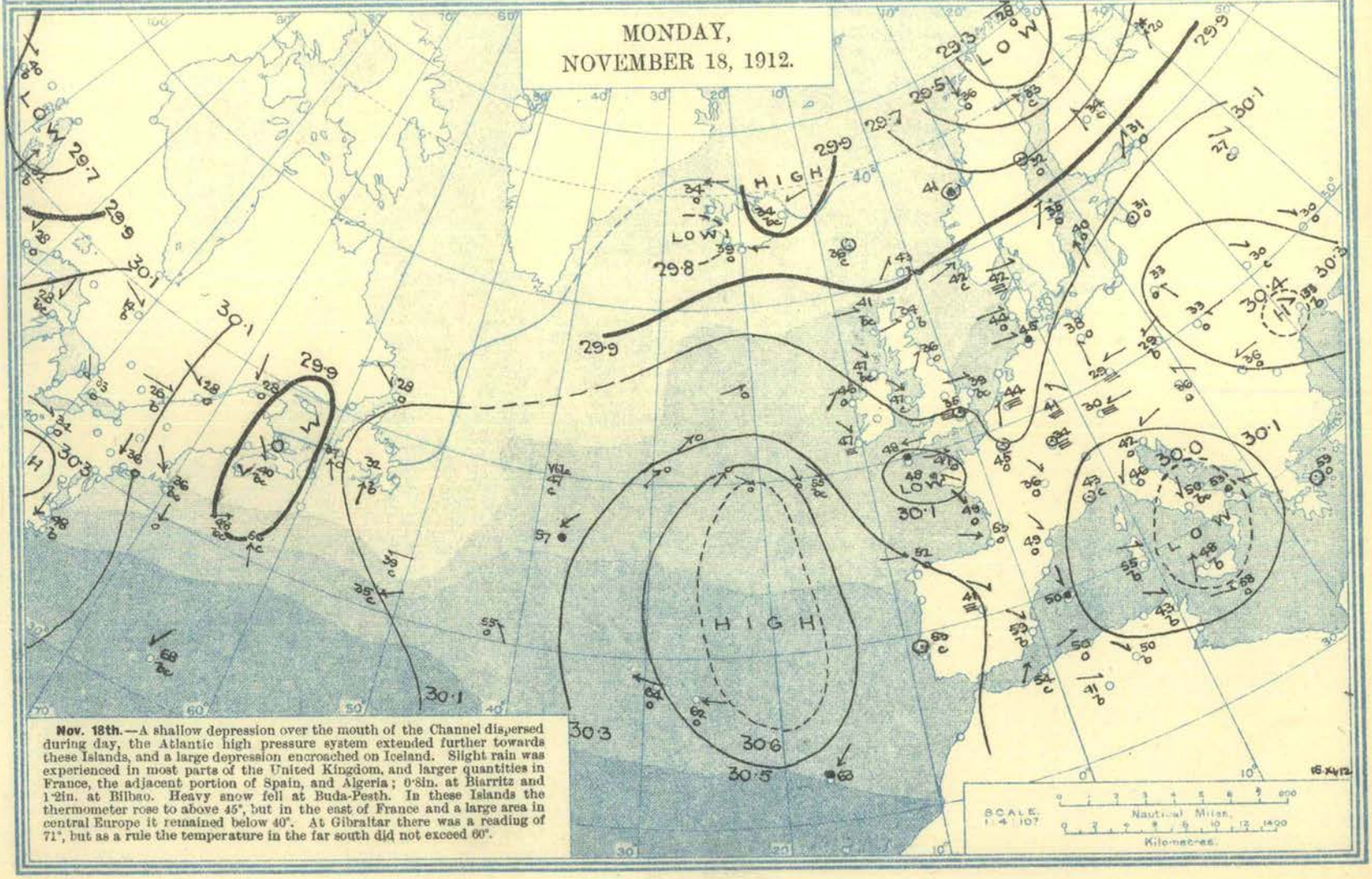
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only

SUNDAY, NOVEMBER 17, 1912.

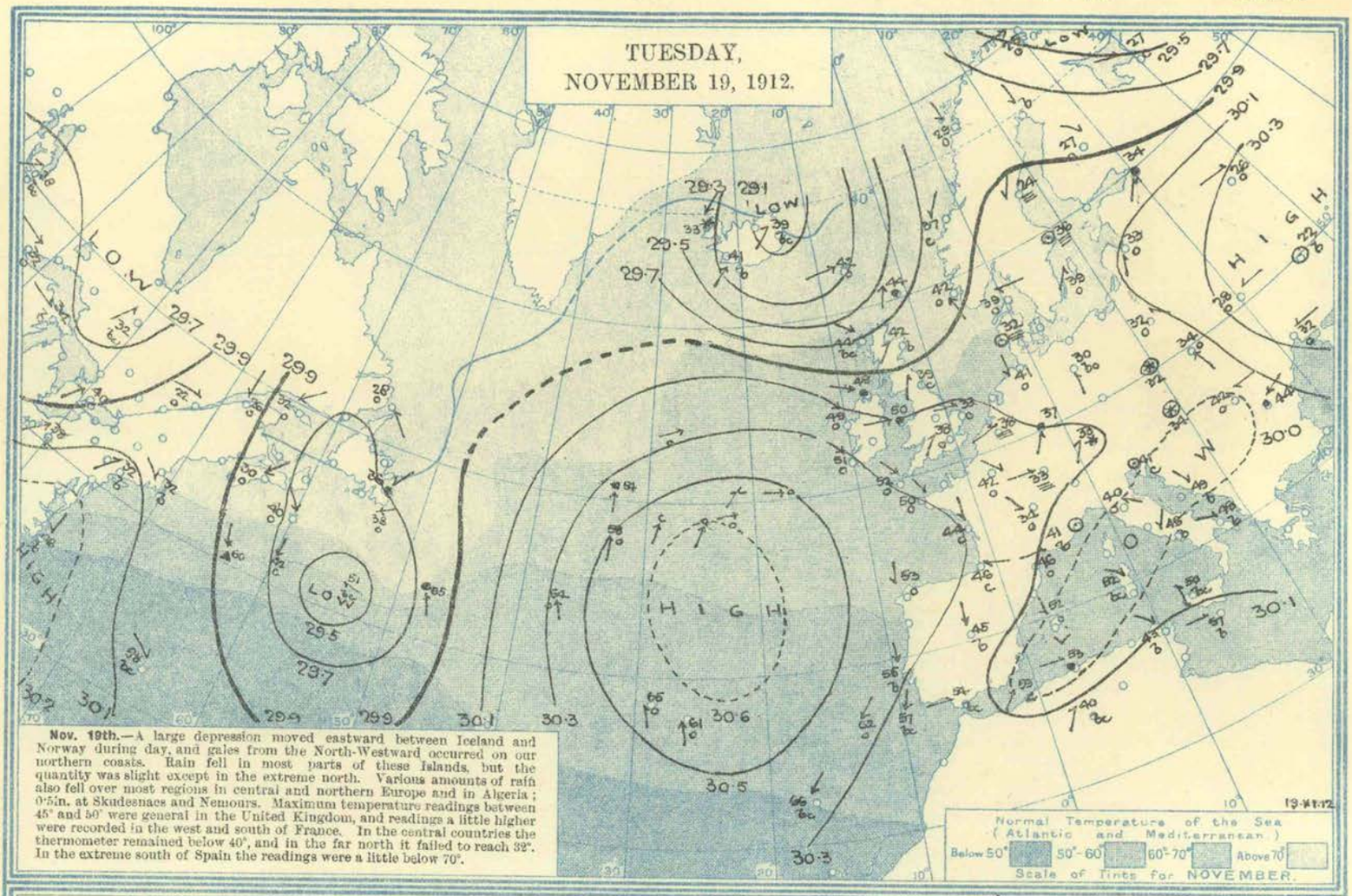


Nov. 17th.—Very little change occurred in the general distribution of pressure during day. Some shallow secondary disturbances moved across these Islands, and a little rain fell in most districts. Rain was experienced over a considerable portion of the Continent and in Algeria; 0·8in. at Christiansund, 1·4in. at Bilbao, and 1·6in. at Algiers. The maximum temperature exceeded 50° in some parts of Ireland and England, and also in the north of France, but was below 45° in most parts of central Europe; below 40° in Poland. At Athens and Gibraltar the thermometer touched 68°, and at Sfax 73°, but at Laghouat the highest reading was 54°.

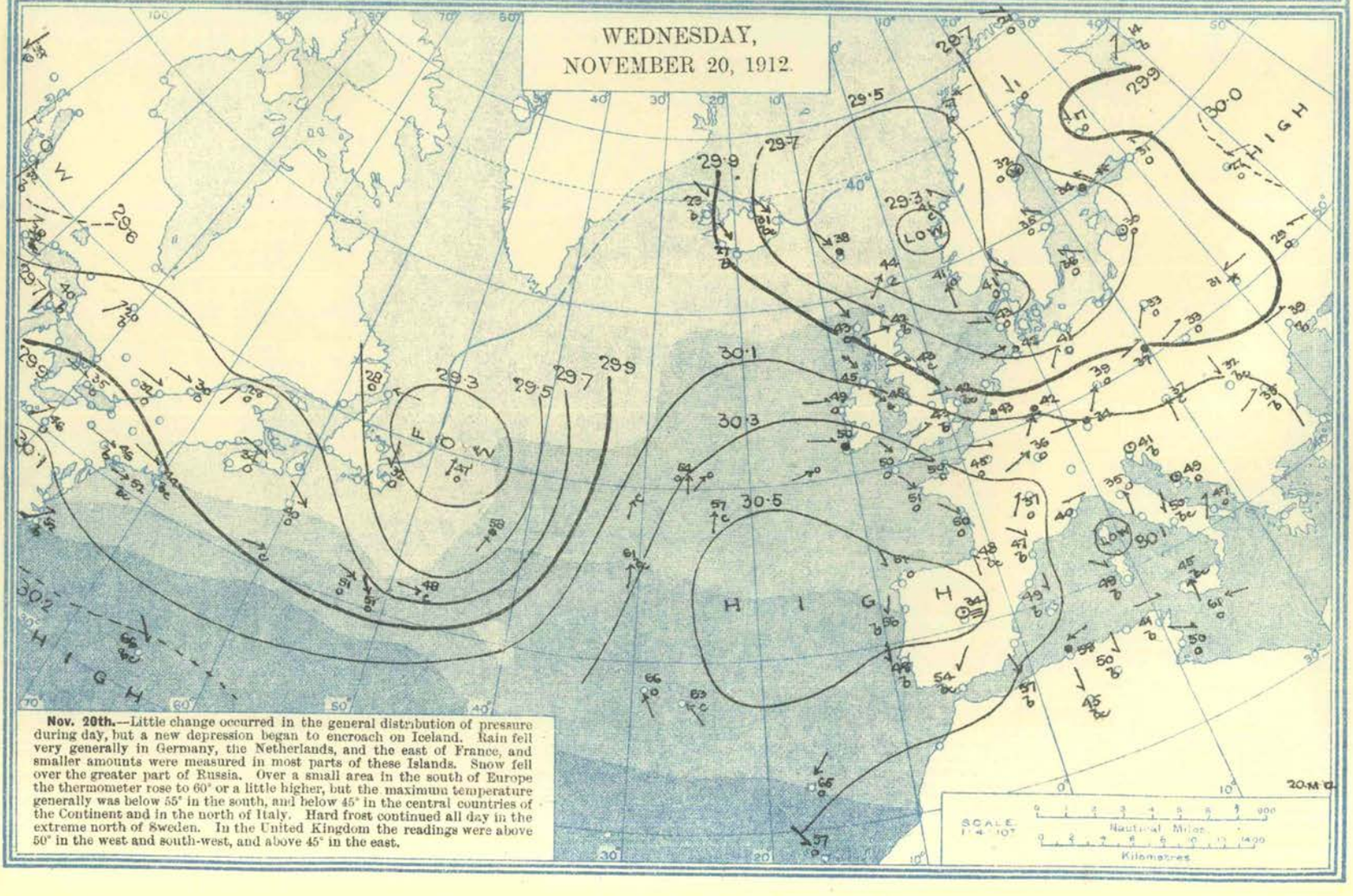
MONDAY, NOVEMBER 18, 1912.



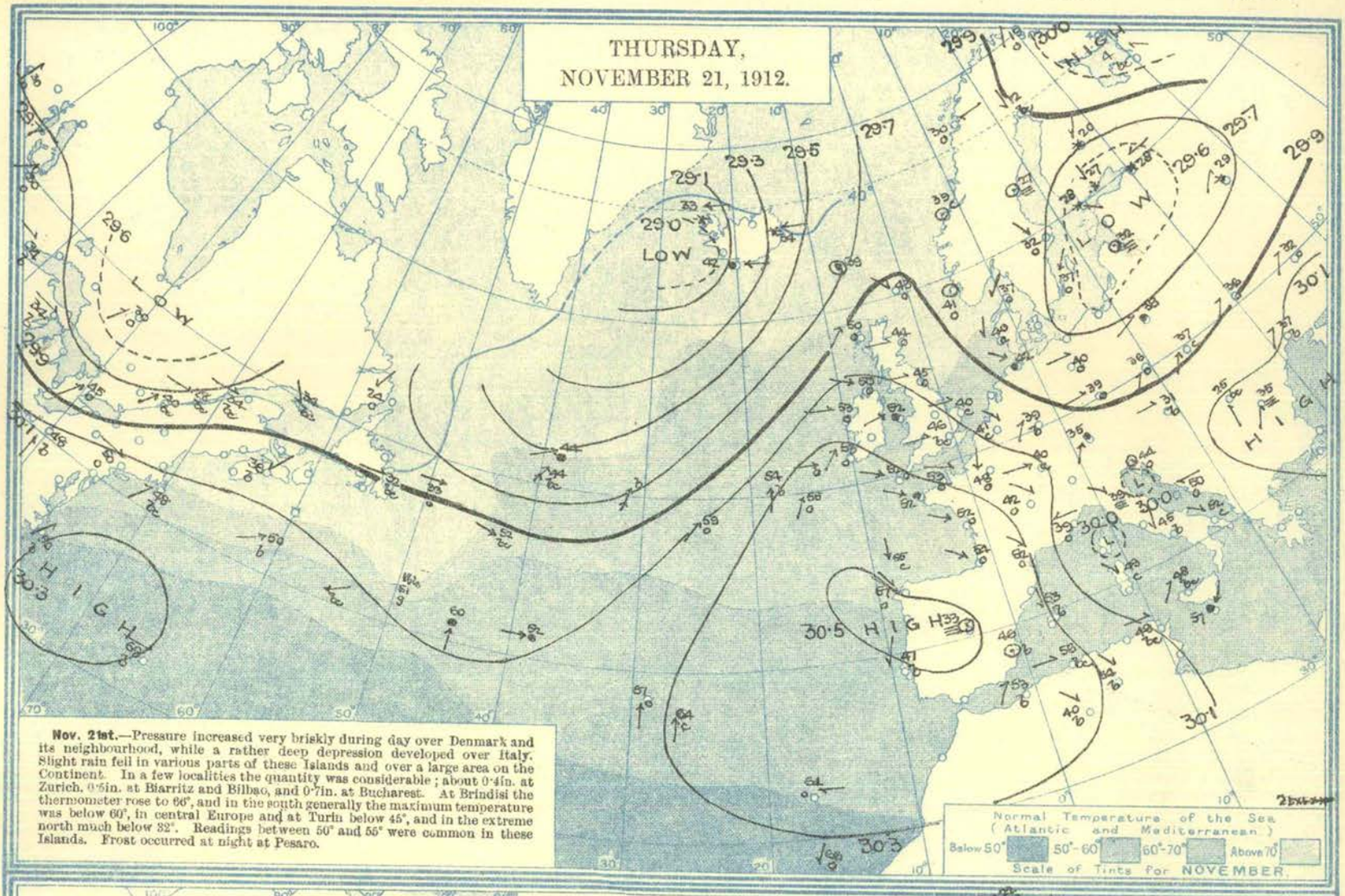
Nov. 18th.—A shallow depression over the mouth of the Channel dispersed during day, the Atlantic high pressure system extended further towards these Islands, and a large depression encroached on Iceland. Slight rain was experienced in most parts of the United Kingdom, and larger quantities in France, the adjacent portion of Spain, and Algeria; 0·8in. at Biarritz and 1·2in. at Bilbao. Heavy snow fell at Buda-Pesth. In these Islands the thermometer rose to above 45°, but in the east of France and a large area in central Europe it remained below 40°. At Gibraltar there was a reading of 71°, but as a rule the temperature in the far south did not exceed 60°.



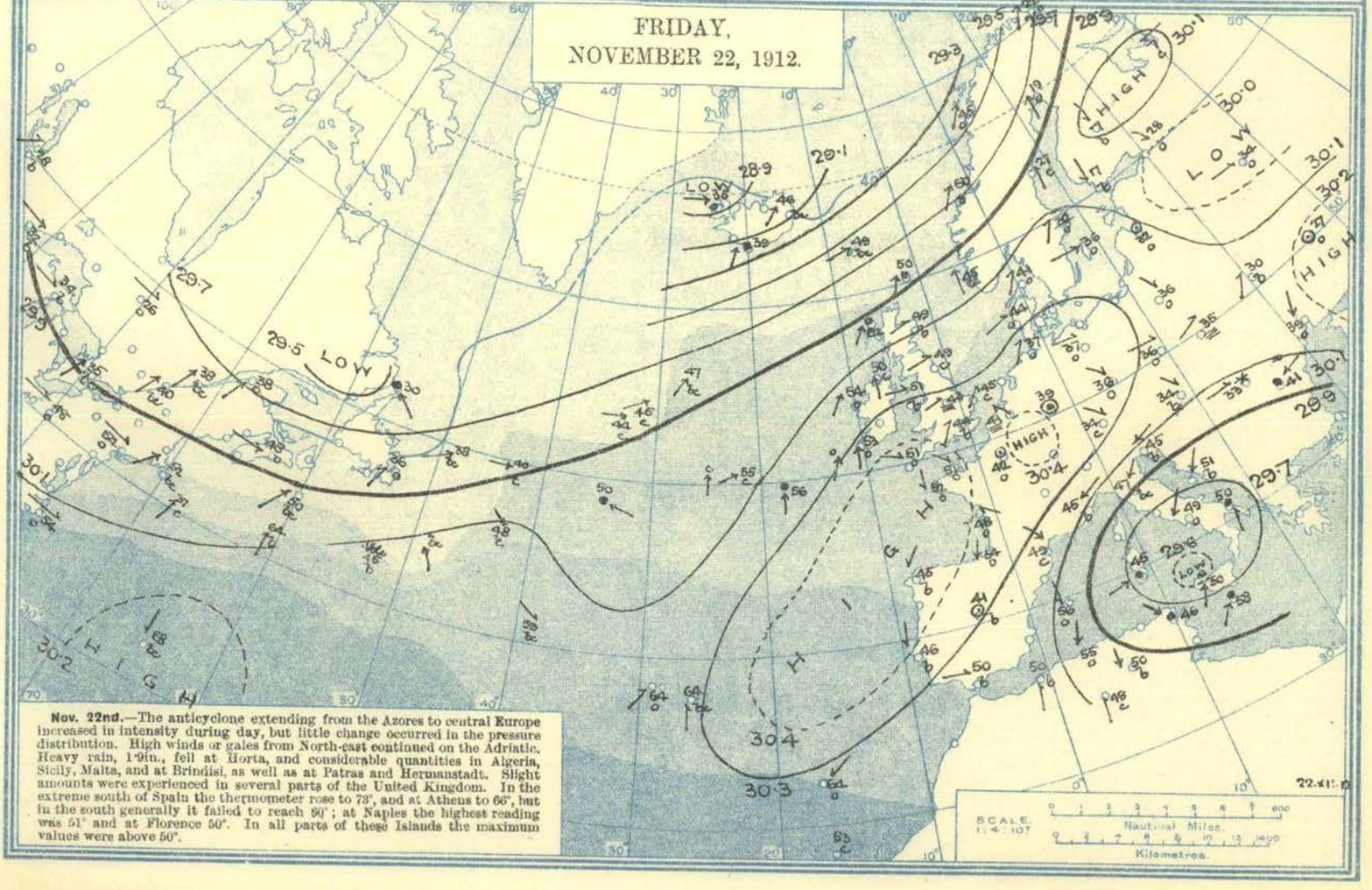
Nov. 19th.—A large depression moved eastward between Iceland and Norway during day, and gales from the North-Westward occurred on our northern coasts. Rain fell in most parts of these Islands, but the quantity was slight except in the extreme north. Various amounts of rain also fell over most regions in central and northern Europe and in Algeria; 0·5in. at Skudesnaes and Nemours. Maximum temperature readings between 45° and 50° were general in the United Kingdom, and readings a little higher were recorded in the west and south of France. In the central countries the thermometer remained below 40°, and in the far north it failed to reach 32°. In the extreme south of Spain the readings were a little below 70°.



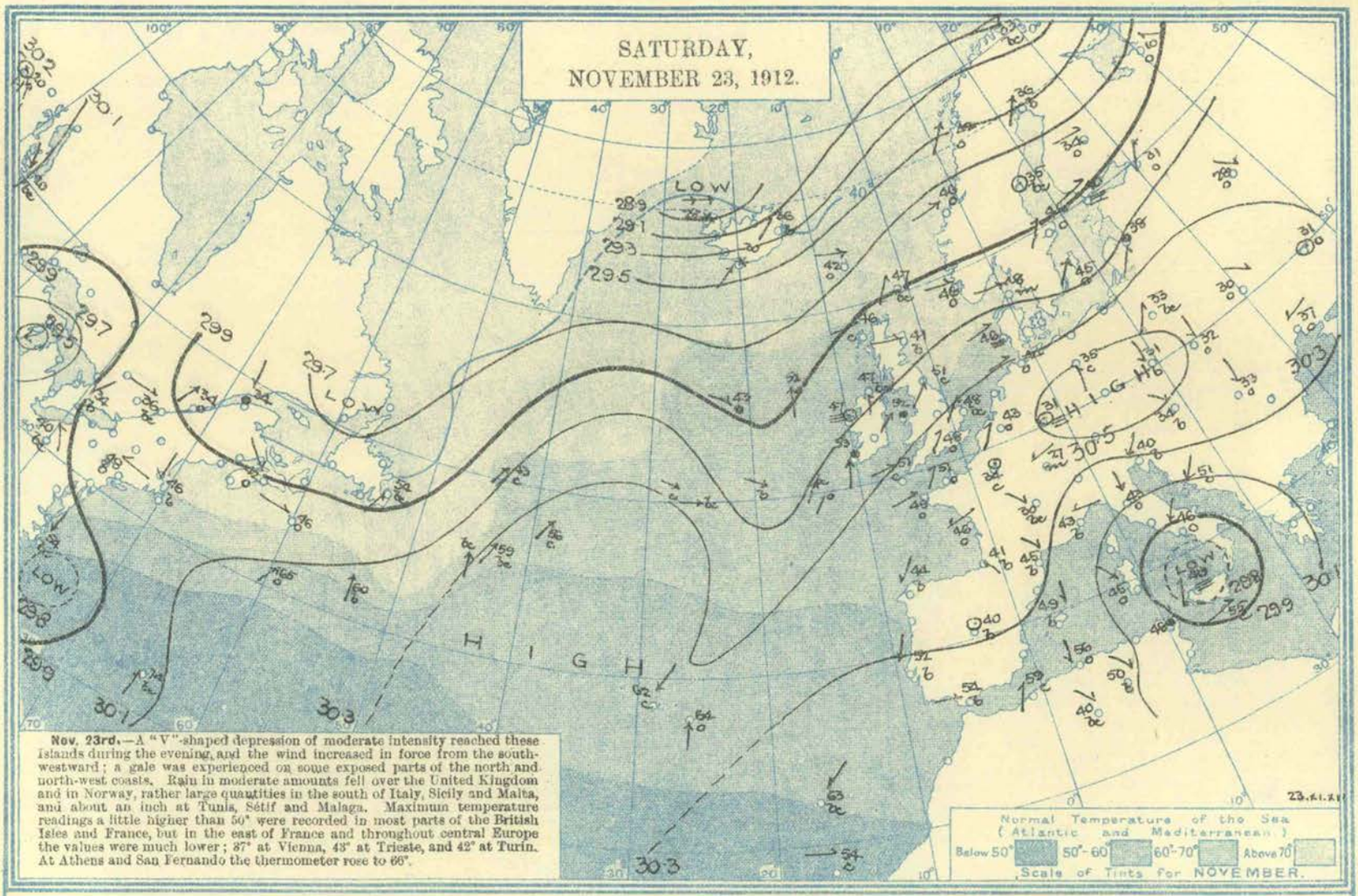
Nov. 20th.—Little change occurred in the general distribution of pressure during day, but a new depression began to encroach on Iceland. Rain fell very generally in Germany, the Netherlands, and the east of France, and smaller amounts were measured in most parts of these Islands. Snow fell over the greater part of Russia. Over a small area in the south of Europe the thermometer rose to 60° or a little higher, but the maximum temperature generally was below 55° in the south, and below 45° in the central countries of the Continent and in the north of Italy. Hard frost continued all day in the extreme north of Sweden. In the United Kingdom the readings were above 50° in the west and south-west, and above 45° in the east.



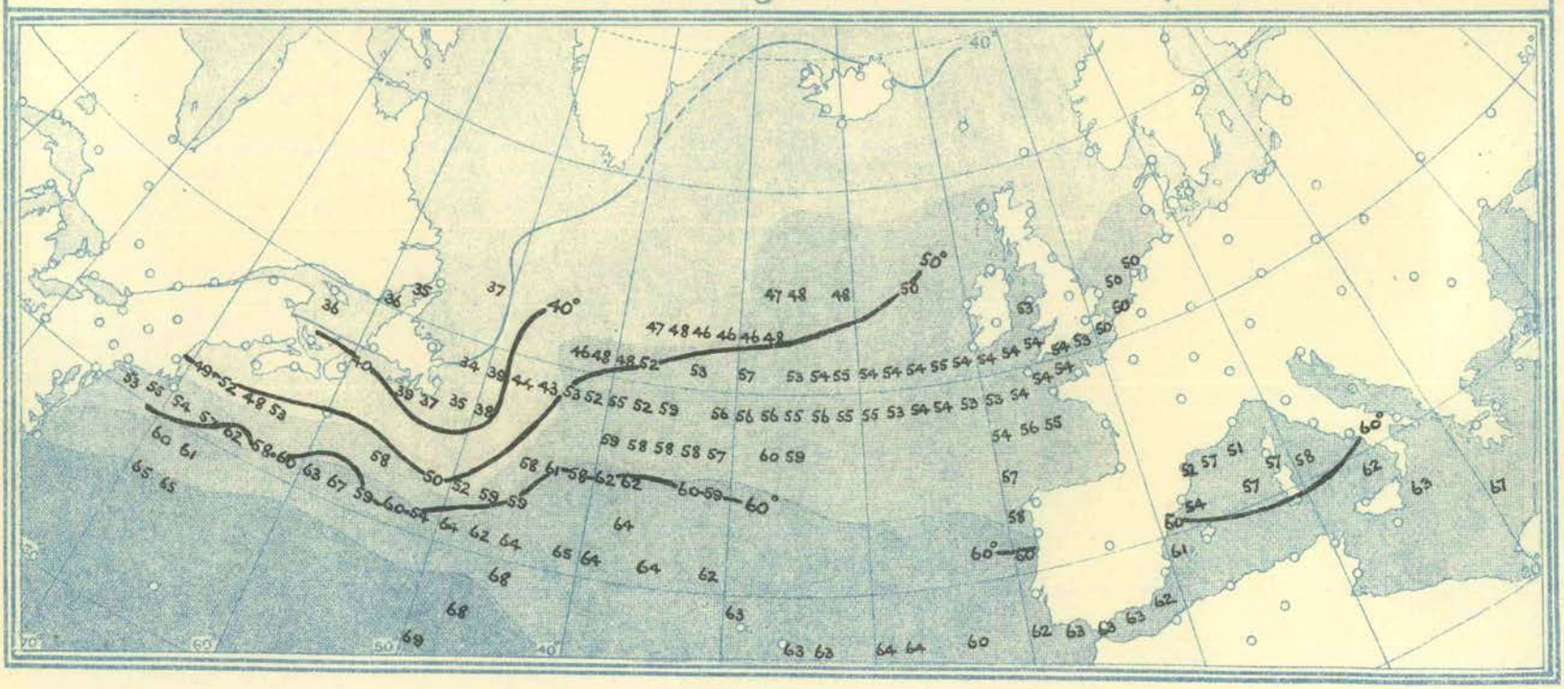
Nov. 21st.—Pressure increased very briskly during day over Denmark and its neighbourhood, while a rather deep depression developed over Italy. Slight rain fell in various parts of these Islands and over a large area on the Continent. In a few localities the quantity was considerable; about 0·4in. at Zurich, 0·5in. at Biarritz and Bilbao, and 0·7in. at Bucharest. At Brindisi the thermometer rose to 66°, and in the south generally the maximum temperature was below 60°, in central Europe and at Turin below 45°, and in the extreme north much below 32°. Readings between 50° and 55° were common in these Islands. Frost occurred at night at Pesaro.



Nov. 22nd.—The anticyclone extending from the Azores to central Europe increased in intensity during day, but little change occurred in the pressure distribution. High winds or gales from North-east continued on the Adriatic. Heavy rain, 1·9in., fell at Horta, and considerable quantities in Algeria, Sicily, Malta, and at Brindisi, as well as at Patras and Hermanstadt. Slight amounts were experienced in several parts of the United Kingdom. In the extreme south of Spain the thermometer rose to 73°, and at Athens to 66°, but in the south generally it failed to reach 60°; at Naples the highest reading was 51° and at Florence 50°. In all parts of these Islands the maximum values were above 50°.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 23rd. NOVEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) | No. 48. | FORTY-EIGHTH WEEK, SUNDAY, NOVEMBER 24TH, TO SATURDAY, NOVEMBER 30TH, 1912.

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I.—General Remarks.

Weather. A very unstable condition prevailed throughout. Generally there was much cloud, with frequent rain, while late in the week a considerable amount of snow fell over a large area in the north and a little in some localities in the south. On the afternoon of the 27th thunder occurred at Jersey and Guernsey.

Temperature was below the average very generally; in Scotland the deficit was as much as 5° or 6°. The highest of the maxima were recorded at most stations on the 25th or 26th, and ranged from 57° in the Midland Counties and Ireland North to 52° in Scotland North. The absolute minima were extremely low in Scotland and the north of England, and were recorded on the 29th or 30th. At West Linton the thermometer on the latter date descended to 1°, at Balmoral, Kilmarnock, and Newton Rigg to 6°, at Cally, Gatehouse, to 7°, and to below 15° in several other localities. Over Ireland and the southern half of England the values ranged from 18° in Ireland North to 23° in England South-East, and to 35° in the English Channel. The lowest grass readings recorded were −5° at West Linton, −3° at Newton Rigg, 0° (zero) at Balmoral and Worksop, and 4° at Aspatria. The temperature of the soil at the depth of 1 foot was very generally above the normal, and except at some places in the north-east of England, and at Aberystwyth, it was also above it at the depth of 4 feet.

Mean Temperature of the Sea. On nearly all parts of the coast the water was warmer than during the corresponding week of last year, and in most places its temperature was above the average. The means for the week varied from about 51°·5 on the extreme South-West coast of England and 51° at Seafield to a little above 41° at Cromarty and Scarborough.

Rainfall was considerably in excess of the average in nearly all districts. Falls of more than an inch occurred at some Scottish and Welsh stations early in the week, the highest figures being 1·5 in. at Glasgow on the 24th, 1·6 in. at Bettws-y-Coed on the 25th, and 1·9 in. at Stornoway on the 26th. At Buxton and Worksop the depth of snow on the 29th was 6 inches, and at Rothesay on the 30th 7 inches. At Wick on the 29th the snow yielded, when melted, 0·93 in. of water in the gauge.

Bright Sunshine did not differ materially from the normal except in Scotland East, where there was a rather considerable excess. The percentage of the possible duration ranged from 11 in Scotland North and 14 in Ireland North to 23 in England South-West and to 28 in Scotland East.

Barometer and Wind. The centres of deep and large cyclonic disturbances from the Atlantic passed over these islands or their immediate neighbourhood, and strong winds and gales from West or South-West were general during the earlier days of the week. Towards its close the wind was fresh or strong, with gales locally, from the North-West or North. The gale on the 26th was very general, and on many parts of the northern and north-western coasts of exceptional severity. At Aberdeen the velocity of one of the squalls reached the rate of 75 miles per hour. The shift of wind to the North-Westward and Northward late in the week was followed by a very pronounced fall of temperature.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 191		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with average for the time of year ...	Warmth ...	Very deficient	Very deficient	Deficient	Moderate	Moderate	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Moderate
	Rainfall ...	Very heavy	Heavy	Moderate	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Moderate	Heavy	Heavy
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

AUTUMN, 13 weeks from Sept. 1st, 1912.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

PAST SEASONS.

AUTUMN, 1911. Sept. 3rd–Dec. 2nd. 13 weeks.	Warmth ...	1 * 6	2 * 4	4 * 2	4 * 2	4 * 2	4 * 4	2 * 5	2 * 4	4 * 3	2 * 4	2 * 5	4 * 4
	Rainfall ...	5 * 6	4 * 3	4 * 3	5 * 2	3 * 3	4 * 4	2 * 6	5 * 6	5 * 5	2 * 5	6 * 4	6 * 2
	Sunshine ...	5 * 2	5 * 2	5 * 4	6 * 3	4 * 3	7 * 2	3 * 3	7 * 3	6 * 3	4 * 2	3 * 4	2 * 5
WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9

(27450—24.) Wt. 173—814. 450. 12/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts	Names of Stations reporting Temperature of Air and Rainfall	Temperature: Highest observed	Date	Lowest observed	Date	Mean for the Week: Of Highest each day	Of Lowest each day	For whole of each day	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees): Above 42°	Below 42°	Grass Min.: Ground Frosts	Lowest Reading	Earth 1 ft.: Mean	Difference from Average	Earth 4 ft.: Mean	Difference from Average	Rainfall: No. of Rain-Days	Rainfall in the Week	Difference from Average	Bright Sunshine, Hours per Day: Daily Mean	Difference from Average	Percentage of possible duration	Difference from Average	Stations reporting Sunshine and Temperature on the Grass and in the Ground
		°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																									
a, Islands	*p Baltasound* .. S	47	24th	21	29th	39·6	30·0	34·8	—	0	50	•	•	40·2	•	•	•	7	2·17	—	0·3	—	5	—	*Baltasound.*
	a Lerwick	48	24th	24	29th	40·3	32·3	36·3	− 5·5	0	40	•	•	•	•	•	•	7	2·49	—	0·2	− 0·7	3	−10	Deerness.
	a Stornoway	50	24th	21	29, 30	38·1	31·6	34·9	− 6·8	0	50	•	•	•	•	•	•	7	2·84	+ 1·49	1·0	− 0·2	15	− 3	Stornoway.
	a Castlebay, Barra Isd.	51	24th	28	29th	41·9	35·1	38·5	− 5·1	0	25	•	•	•	•	•	•	7	1·41	—	1·0	—	14	—	*Castlebay.*
b, Mainland.	a Wick	48	26th	18	29, 30	38·0	30·7	34·4	− 6·5	0	53	•	•	•	•	•	•	7	2·33	+ 1·68	•	•	•	•	• •
	p Strathpeffer .. S	50	25th	15	28, 29	41·9	25·9	33·9	− 5·7	0	57	•	•	•	•	•	•	4	1·93	+ 1·24	1·5	+ 0·5	21	+ 7	Strathpeffer.
	p Glencarron .. S													•	•	•	•	—	—	—	•	•	•	•	• •
	p Fort Augustus .. S	50	25th	12	29th	38·9	26·1	32·5	− 7·9	0	67	•	•	•	•	•	•	4	2·72	+ 1·65	0·5	+ 0·2	7	+ 3	Fort Augustus.
	p Fort William .. S	52	26th	13	29, 30	39·4	27·1	33·3	− 8·5	0	61	•	•	•	•	•	•	5	3·23	+ 1·23	•	•	•	•	• •
1. SCOTLAND, E.												4	12	39·9	+0·9	43·2	+0·1	—	—	—	2·3	—	32	—	Crathes S.
	p Gordon Castle .. S	52	24, 26	18	29th	41·7	29·6	35·7	− 5·1	0	44	•	•	•	•	•	•	5	0·54	− 0·01	2·0	—	29	—	*Gordon Castle.*
	a Nairn	49	26th	13	29th	38·0	29·0	33·5	− 6·4	0	60	•	•	•	•	•	•	5	1·14	+ 0·67	1·3	—	19	—	Nairn.
	a Aberdeen	51	24th	19	29th	40·0	32·1	36·1	− 4·8	0	41	•	•	•	•	44·0	+0·2	4	1·43	+ 0·76	2·1	+ 0·5	30	+ 8	Aberdeen.
	a Balmoral .. S	47	24th	6	30th	35·6	23·4	29·5	− 7·5	0	88	5	0	•	•	•	•	5	1·77	+ 0·95	•	•	•	•	Balmoral.
	p Crieff .. .. S	50	26th	15	29th	40·4	27·3	33·9	− 6·0	0	57	•	•	•	•	•	•	3	2·07	+ 1·05	2·7	—	37	—	Balruddery.
	a Leith	55	26th	23	30th	42·1	34·4	38·3	− 3·7	0	27	•	•	•	•	•	•	3	0·90	+ 0·45	•	•	•	•	• •
	p West Linton .. S	50	26th	1	30th	37·6	22·6	30·1	− 8·7	0	83	5	−5	•	•	•	•	4	1·11	—	1·9	—	26	—	*West Linton.*
	p Marchmont .. S	51	24th	18	30th	42·0	28·7	35·4	− 4·0	0	46	3	15	38·7	+0·8	•	•	4	0·83	+ 0·18	1·4	0·0	19	0	Marchmont.
2. ENGLAND, N.E.																									
a, North	a Alnwick Castle ..	54	24th	20	30th	42·1	32·9	37·5	− 3·5	0	32	3	10	38·7	+0·9	44·1	+1·7	5	0·98	+ 0·27	1·0	—	14	—	Cockle Park.
	a Shields	53	24, 26	20	30th	43·3	32·6	38·0	− 4·0	4	34	•	•	•	•	•	•	3	0·12	− 0·34	•	•	•	•	*Newcastle.*
	p Durham	51	24th	22	30th	41·7	31·0	36·4	− 3·5	0	39	3	16	•	•	•	•	5	0·33	− 0·16	1·2	− 0·3	16	− 4	Durham.
	p Rounton	51	25, 26	19	30th	42·4	30·2	36·4	− 3·8	1	42	6	15	40·6	•	•	•	5	0·36	− 0·06	•	•	•	•	Rounton.
	a West Witton	50	24, 26	15	30th	40·7	32·0	36·4	—	0	39	4	15	41·5	•	44·8	•	4	1·25	—	•	•	•	•	*West Witton.*
	p Scarborough	53	26th	28	30th	43·4	35·4	39·4	− 2·9	4	24	•	•	•	•	46·8†	•	6	0·54	0·00	0·7	—	9	—	Scarborough.
	p York	54	26th	23	30th	44·0	33·0	38·5	− 2·8	6	33	•	•	43·5	+1·6	47·0	+0·5	6	0·60	+ 0·15	0·9	− 0·1	12	− 2	York.
b South	a Spurn Head	52	26th	32	28, 30	43·4	36·9	40·2	− 2·6	4	19	5	24	41·1	+0·7	46·6	−0·4	5	1·43	+ 1·02	0·6	—	8	—	*Hull.*
	a Lincoln	55	26th	24	30th	43·4	33·9	38·7	− 2·1	4	30	•	•	40·4	+0·4	45·9	−0·3	4	1·19	+ 0·77	•	•	•	•	Lincoln.
	a Fulbeck	53	26th	23	30th	43·1	32·3	37·7	− 2·3	3	35	5	20	42·6	+1·6	47·8	+0·5	5	1·00	+ 0·57	1·3	—	17	—	Rauceby.
												•	•	•	•	•	•	—	—	—	1·6	—	20	—	Skegness.
3. ENGLAND, E.												3	23	43·0	+0·5	47·6	+0·5	—	—	—	1·9	—	24	—	*Lowestoft.*
a, North	p Cromer	53	26th	32	28th	47·0	35·7	41·4	+ 0·9	14	26	•	•	•	•	•	•	7	0·83	—	2·1	—	27	—	Cromer.
	p Little Massingham ..	51	26th	27	30th	44·4	33·4	38·9	− 1·4	7	32	4	17	•	•	•	•	5	1·31	—	1·5	•	19	•	*Little Massingham*
	a Yarmouth	53	26th	32	28, 29	45·9	37·6	41·8	− 0·2	11	18	•	•	42·3	+1·2	47·9	+1·0	7	0·90	+ 0·40	2·0	—	25	—	Yarmouth.
	a Norwich	52	26th	31	28th	44·6	36·7	40·7	− 0·6	7	21	2	25	41·8	•	•	•	5	0·92	—	1·9	—	24	—	*Norwich.*
	p Geldeston	53	26th	29	28, 30	46·6	34·6	40·6	− 1·4	13	29	•	•	•	•	•	•	5	0·96	+ 0·46	1·9	+ 0·1	24	+ 2	Geldeston.
b, South	p Cambridge	53	26th	26	30th	45·7	33·1	39·4	− 1·8	10	34	4	20	43·1	+1·6	48·1	+1·0	4	0·58	+ 0·18	1·7	+ 0·1	21	+ 1	Cambridge.
	a Felixstowe	52	26th	31	28th	45·1	37·4	41·3	− 1·4	9	19	•	•	•	•	•	•	4	0·59	—	2·2	—	28	—	*Felixstowe.*
	a Clacton-on-Sea ..	50	25, 26	31	29th	45·1	37·6	41·4	− 1·1	9	18	1	27	44·6	−0·4	48·8	+0·4	5	0·46	—	2·0	—	25	—	Clacton.
	a Rothamsted	52	25, 26	28	28th	45·1	33·7	39·4	− 1·6	9	31	•	•	•	•	•	•	5	1·17	+ 0·57	1·7	+ 0·1	21	+ 1	Rothamsted.
	a Shoeburyness	52	25th	30	28th	46·0	37·3	41·7	− 1·4	11	20	5	21	44·9	+2·0	•	•	3	0·67	+ 0·28	1·6	—	20	—	*Southend.*
	p Tottenham	56	24th	30	30th	47·9	37·0	42·5	+ 0·2	25	14	3	23	•	•	49·1	+0·9	4	0·98	—	1·0	—	12	—	Tottenham.
4. MIDLAND COUNTIES.												3	14	42·0	+2·4	46·2	+1·0	—	—	—	0·9	—	12	—	*Huddersfield.*
a East	a Harrogate	52	26th	20	30th	40·9	31·6	36·3	− 3·9	0	40	3	11	42·4	+1·5	45·0	+0·6	5	0·92	+ 0·32	1·6	—	21	—	Harrogate.
	a Bawtry											5	0	42·1	•	45·9	•	—	—	—	1·0	− 0·3	13	− 3	Worksop.
	p Buxton	49	26th	21	30th	41·4	31·0	36·2	− 2·6	0	41	5	11	42·3	+2·9	46·1	+0·2	5	1·68	+ 0·58	0·9	—	11	—	*Buxton.*
	a Nottingham	54	26th	26	29th	43·9	32·6	38·3	− 2·7	5	35	5	21	40·4	+0·8	45·7	+0·9	5	0·96	+ 0·51	0·6	—	8	—	Nottingham.
	p Birmingham, Edgbsn.	51	26th	26	30th	42·6	33·6	38·1	− 2·7	2	30	5	14	43·4	+1·5	47·8	+0·4	6	1·13	+ 0·59	0·8	—	10	—	Birmingham.
	a Raunds	53	26th	27	28, 29, 30	44·4	33·1	38·8	− 1·9	7	33	3	23	43·4	•	49·2	•	4	0·69	—	•	•	•	•	Raunds.
	a Oxford	53	26th	28	30th	44·9	34·9	39·9	− 1·6	8	27	3	23	•	•	•	•	4	1·15	+ 0·63	1·6	0·0	20	0	Oxford.
												4	20	42·7	+2·0	46·9	+0·5	—	—	—	0·9	—	11	—	Sheffield.
b, West	a Cheadle	51	26th	23	29th	41·6	29·4	35·5	− 4·5	0	46	6	15	•	•	•	•	4	1·44	+ 0·79	•	•	•	•	Cheadle.
	p Shrewsbury	54	26th	19	30th	45·1	32·0	38·6	− 3·9	9	38	4	20	•	•	•	•	4	1·12	—	•	•	•	•	Shrewsbury.
	a Hereford	52	25, 26	23	30th	43·9	33·4	38·7	− 2·7	5	32	4	20	•	•	•	•	3	0·87	+ 0·32	•	•	•	•	Hereford.
	a Cirencester	56	26th	26	28, 29	43·6	32·0	37·8	− 2·4	4	36	3	24	44·0	•	47·4	•	4	1·22	+ 0·58	1·4	− 0·2	17	− 2	Cirencester.
	a Bath	57	26th	28	30th	46·4	35·3	40·9	− 1·4	12	27	•	•	44·9	+0·9	49·9	+0·9	5	1·65	+ 0·96	1·7	—	21	—	Bath.
5. ENGLAND, S.E.												2	25	44·4	+1·5	49·4	+2·9	—	—	—	•	•	•	•	Canterbury.
	p Kew	52	25, 26	30	28th	46·3	37·3	41·8	− 0·4	12	19	5	16	44·1	+2·2	48·4	+0·7	4	0·94	+ 0·45	1·2	− 0·2	15	− 2	Kew.
	a Marlborough	51	25, 26	27	28th	43·6	33·4	38·5	− 2·1	4	31	3	18	•	•	48·2	•	3	1·36	+ 0·66	0·9	− 0·4	11	− 5	Marlborough.
	a Margate	52	25th	35	28th	46·6	38·4	42·5	− 0·9	19	10	•	•	45·1	+1·0	47·7	+0·7	5	0·89	+ 0·39	1·6	− 0·1	20	− 1	Margate.
	a Wisley, Surrey ..	53	25th	29	28, 30	46·6	35·3	41·0	− 1·7	13	27	4	19	43·2	+1·1	47·7	+0·6	4	1·07	—	1·4	—	17	—	Wisley
	a Swarraton	52	25th	23	28th	44·3	33·6	39·0	− 2·3	6	31	2	23	45·6	+2·5	49·4	+0·7	4	1·30	+ 0·58	1·8	—	22	—	Worthing.
	a Tunbridge Wells ..	51	25th	27	28th	44·4	33·6	39·0	− 2·9	7	31	5	22	43·6	+2·1	•	•	4	1·37	+ 0·63	1·8	0·0	22	0	Tunbridge Wells.
	a Dungeness	52	25, 26	30	28, 30	47·3	38·4	42·9	− 1·3	21	10	•	•	•	•	•	•	6	1·15	+ 0·60	1·5	—	19	—	Littlestone.
	p Hastings	52	25th	30	30th	46·9	36·7	41·8	− 2·1	14	22	3	27	44·7	•	48·9	•	6	1·32	+ 0·63	1·9	− 0·2	23	− 2	*Hastings.*
	p Southampton	53	25th	28	30th	47·0	36·0	41·5	− 2·0	14	25	3	22	•	•	•	•	5	1·13	+ 0·42	1·2	− 0·6	15	− 7	Southampton
	a Ventnor	53	25th	34	28, 30	46·7	39·4	43·1	− 3·2	19	7	•	•	•	•	•	•	6	1·10	+ 0·36	1·6	− 0·3	19	− 3	Ventnor.
												2	24	45·3	+0·5	49·8	+0·5	—	—	—	1·8	—	22	—	*Portsmouth.*
												•	•	46·4	•	50·1	•	—	—	—	1·7	− 0·2	21	− 2	Eastbourne.
												•	•	45·0	•	47·8	•	—	—	—	1·6	—	19	—	*Bournemouth.*
LONDON.												2	27	•	•	48·4	•	—	—	—	1·6	− 0·3	19	− 4	*Brighton.*
	a Westminster	54	25, 26	30	28th	47·0	37·1	42·1	− 0·3	21	14	3	27	•	•	•	•	4	0·89	+ 0·39	0·6	0·0	7	0	*Westminster.*
	a Greenwich	53	25th	29	28th	45·9	36·1	41·0	− 1·4	11	23	4	19	•	•	•	•	4	0·88	+ 0·38	1·1	− 0·2	14	− 2	*Greenwich.*
	a Hampstead	51	25, 26	29	28th	44·3	36·1	40·2	—	6	22	5	15	•	•	•	•	4	0·95	—	1·1	—	14	—	*Hampstead.*
	a Camden Square ..	53	25, 26	28	28th	45·9	35·6	40·8	—	11	25	2	24	•	•	•	•	4	0·93	—	0·9	—	11	—	*Camden Square*
6. a, SCOTLAND, W.																									
	a Poltalloch .. S	50	24, 25, 26	17	30th	41·6	31·6	36·6	− 5·3	0	38	•	•	•	•	•	•	3	2·47	+ 1·21	•	•	•	•	• •
	p Glasgow	52	26th	20	30th	41·9	32·3	37·1	− 4·4	0	34	3	14	•	•	•	•	3	2·23	+ 1·36	0·3	− 0·3	4	− 4	Glasgow.
	p Rothesay .. S	52	24, 26	20	30th	42·7	32·0	37·4	− 5·0	2	36	•	•	•	•	46·7	+1·8	5	1·95	+ 0·78	•	•	•	•	• •
	a Kilmarnock	53	26th	6	30th	39·9	28·7	34·3	− 7·2	0	51	•	•	•	•	•	•	4	1·22	—	0·5	—	7	—	*Kilmarnock.*
	a Colmonell .. S	53	26th	12	30th	41·3	31·4	36·4	− 5·4	0	39	3	10	•	•	•	•	5	1·39	+ 0·16	•	•	•	•	• •
	p Dumfries .. S	52	24-26	11	30th	42·1	29·6	35·9	− 5·3	0	44	4	9	41·9	•	45·7	•	5	1·20	+ 0·30	1·3	—	17	—	*Dumfries.*
	p Cally, Gatehouse S	52	25, 27	7	30th	44·6	29·3	37·0	− 4·1	7	47	•	•	•	•	•	•	3	0·84	− 0·40	•	•	•	•	• •
b I. OF MAN																									
	p Douglas	52	26th	27	30th	44·0	35·6	39·8	− 4·2	6	24	3	19	•	•	•	•	6	1·05	− 0·05	2·1	+ 0·4	27	+ 5	Douglas.
												2	8	41·6	+2·2	46·0	+1·1	—	—	—	0·7	—	9	—	*Burnley.*
7. a, ENGLAND, N.W.												3	19	•	•	•	•	—	—	—	2·3	—	29	—	Hoylake.
	p Aspatria	54	26th	12	30th	40·9	30·4	35·7	− 5·3	0	44	3	4	43·8	•	47·6	•	4	1·07	+ 0·11	1·1	—	15	—	Aspatria.
	p Newton Rigg	55	26th	6	30th	40·9	27·0	34·0	− 5·6	0	56	7	−3	42·3	+1·8	45·1	+0·5	5	1·74	+ 0·88	0·9	− 0·5	12	− 6	Newton Rigg.
	p Stonyhurst	51	24, 26	20	30th	42·9	33·0	38·0	− 3·3	3	32	3	11	•	•	•	•	5	1·32	+ 0·29	1·6	+ 0·4	21	+ 6	Stonyhurst.
	p Blackpool	52	26th	22	30th	44·4	34·1	39·3	− 3·2	7	30	3	13	44·5	•	48·4	•	6	0·95	+ 0·19	1·9	+ 0·7	25	+ 9	Blackpool.
	p Manchester (Whit. Pk.)	54	26th	27	30th	44·4	35·9	40·2	—	7	23	3	12	•	•	•	•	5	0·80	—	0·1	—	1	—	*Whit. Park.*
	a Liverpool (Bidston) ..	51	26th	25	30th	44·6	36·4	40·5	− 1·7	7	21	•	•	•	•	•	•	5	0·91	+ 0·34	2·2	—	28	—	*Liverpool.*
	a Hawarden Bridge ..	55	25, 26	26	30th	45·7	36·6	41·2	− 2·4	10	22	3	7	41·6	+2·1	46·5	+2·1	3	0·80	+ 0·28	2·2	+ 1·0	29	+13	*Southport.*
												2	19	42·7	+2·4	47·7	+0·8	—	—	—	0·2	—	3	—	*Manchester (City).*
b, NORTH WALES.																									
	p Llandudno	55	26th	25	30th	45·9	37·0	41·5	− 3·3	11	21	•	•	•	•	•	•	5	1·61	+ 0·94	1·8	+ 0·5	24	+ 6	Llandudno.
	a Holyhead	53	25, 26	33	30th	47·1	39·9	43·5	− 1·9	19	6	•	•	•	•	•	•	6	0·70	− 0·25	2·0	—	33	—	Aberdovey.
	p Bettws-y-Coed ..	56	26th	23	30th	45·9	34·0	40·0	− 4·4	11	31	4	25	44·1	+2·3	47·8	+1·3	5	3·72	—	1·0	—	13	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	•	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				2·5	—	31	—	Aberystwyth.
a Llangammarch Wells	52	26th	31	30th	43·1	32·9	38·0	− 2·6	3	33	3	17	43·3	+0·6	48·0	0·0	6	2·41	—	1·5	—	19	—	Llangammarch
a Pembroke	56	26th	31	30th	48·6	41·7	45·2	− 1·3	24	1	•	•	•	•	•	•	6	1·50	+ 0·60	1·3	− 0·5	16	− 8	Pembroke.[Wells
p Cardiff	53	26th	28	30th	46·3	35·1	40·7	− 1·7	12	27	2	24	44·5	+2·4	48·4	+1·2	3	1·76	+ 0·77	2·2	—	27	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	54	26th	30	28, 30	44·9	36·9	40·9	− 2·4	8	20	4	24	•	•	•	•	4	1·83	+ 1·06	*1·6*	—	*20*	—	*Clifton.*
a Shaftesbury	50	25, 26	28	30th	42·8	34·7	38·7	− 3·3	2	26	•	•	43·6	•	48·2	•	3	1·02	+ 0·22	•	•	•	•	Shaftesbury.
a Arlington	51	25, 26	30	30th	44·6	36·4	40·5	− 2·5	7	21	•	•	48·0	•	•	•	4	2·02	+ 0·67	1·8	− 0·3	22	− 4	Newquay.
a Cullompton	53	25, 26	27	28th	46·7	35·6	41·2	− 1·9	13	26	3	23	46·1	•	•	•	4	0·99	+ 0·14	1·7	+ 0·2	21	+ 2	Cullompton.
a Portland	54	26th	29	30th	49·3	39·9	44·6	− 1·3	27	6	•	•	•	•	•	•	4	0·99	—	*2·0*	—	*24*	—	*Weymouth.*
p Plymouth	53	25, 26	31	28, 30	49·0	38·8	43·9	− 2·0	27	9	4	20	46·5	+1·0	•	•	4	1·24	+ 0·34	2·1	+ 0·2	25	+ 3	Plymouth.
p Falmouth	52	24-26	35	30th	47·6	40·7	44·2	− 2·8	21	4	•	•	•	•	•	•	6	2·00	+ 0·80	2·0	− 0·1	24	− 1	Falmouth.
9. IRELAND, N.																								
a, West .. *a* Malin Head	52	24th	30	28th	43·4	36·3	39·9	− 4·1	4	21	•	•	•	•	•	•	7	1·45	+ 0·70	•	•	•	•	•
a Blacksod Point ..	55	25th	30	30th	45·7	38·1	41·9	− 3·4	10	16	•	•	•	•	•	•	6	1·52	+ 0·24	•	•	•	•	•
p Markree Castle ..	57	26th	18	30th	45·6	31·1	38·4	− 3·8	10	41	4	15	45·0	•	49·0	•	6	1·52	+ 0·52	1·1	− 0·4	14	− 5	Markree Castle.
a Birr Castle	53	25, 26	21	30th	43·0	31·9	37·5	− 4·8	3	36	•	•	•	•	•	•	5	0·75	+ 0·01	*0·4*	− *1·4*	*5*	− *18*	*Birr Castle.*
b, East .. *p* Armagh	50	24, 26	21	30th	42·3	32·0	37·2	− 4·8	1	36	4	17	43·6	+1·9	47·9	+1·3	4	0·74	+ 0·05	1·1	− 0·4	14	− 6	Armagh.
a Donaghadee	52	26th	30	28, 30	44·0	35·0	39·5	− 4·0	6	26	•	•	•	•	•	•	3	0·63	− 0·09	•	•	•	•	•
											2	29	44·4	+1·5	48·1	+1·0	—	—	—	•	•	•	•	Trinity Coll.
10. IRELAND, S.											4	14	•	•	•	•	—	—	—	2·1	+ 0·1	27	+ 2	Phœnix Park.
a, East .. *p* Dublin, City	54	26th	27	30th	44·6	34·7	39·7	− 4·9	7	28	4	25	•	•	•	•	5	0·79	+ 0·20	•	•	•	•	Dublin City.
a Kilkenny	53	25, 26	25	30th	43·9	32·3	38·1	− 4·6	5	35	•	•	•	•	•	•	5	0·71	− 0·04	•	•	•	•	•
a Waterford	53	25, 26	27	30th	46·4	34·6	40·5	− 3·6	12	29	•	•	•	•	•	•	4	0·87	− 0·07	•	•	•	•	•
b, West .. *a* Birr Castle	53	25, 26	21	30th	43·0	31·9	37·5	− 4·8	3	36	•	•	•	•	•	•	5	0·75	+ 0·01	0·4	− 1·4	5	−18	Birr Castle.
a Foynes	54	25th	26	30th	45·9	36·1	41·0	− 3·6	11	23	•	•	•	•	•	•	6	1·67	+ 0·68	•	•	•	•	•
a Cahir	53	25, 26	24	30th	44·3	32·7	38·5	− 5·5	6	34	•	•	•	•	•	•	6	1·64	—	•	•	•	•	•
a Killarney	54	24, 25	26	30th	47·9	36·9	42·4	− 2·4	24	14	•	•	•	•	•	•	6	1·90	+ 0·43	•	•	•	•	•
a Valencia	55	26th	33	30th	48·6	40·9	44·8	− 2·0	24	3	•	•	•	•	•	•	6	1·47	+ 0·09	1·3	− 0·5	16	− 7	Valencia.
a Roche's Point	53	26th	33	30th	47·3	38·1	42·7	− 3·4	21	11	•	•	•	•	•	•	6	0·97	− 0·13	2·0	—	25	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	26th	35	30th	49·3	42·3	45·8	− 3·2	27	0	•	•	•	•	•	•	5	1·53	+ 0·67	1·4	− 0·7	17	− 9	Scilly.
a Jersey, St. Aubins ..	54	26th	38	28, 29	50·0	43·1	46·6	− 0·7	32	0	•	•	•	•	•	•	6	1·81	+ 0·89	1·8	− 0·5	21	− 6	St. Heliers.
a Guernsey (Villa Carey)	52	24-26	37	28th	48·4	42·9	45·7	− 1·9	26	0	1	29	47·4	+0·1	51·6	+0·4	6	2·09	+ 1·07	1·7	0·0	20	0	Guernsey.*

Additional Sunshine Means:—*Bognor, 1·7 hrs. 21 %; Ramsgate, 1·6 hrs. 20 %; Rhyl, 2·1 hrs. 27 %; Salcombe, 2·4 hrs. 29 %; Tenby, 1·6 hrs. (−0·2) 20 % (− 2 %); Torquay, 2·0 hrs. (+0·1) 24 % (+1 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, November 30th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	
SCOTLAND, N. ..	Lerwick	46	44	45·3	−0·2
	Kirkwall	46	40	43·8	+0·9
	Wick	47	45	46·2	−1·2
SCOTLAND, E. ..	Cromarty	46	36	41·4	−1·1
	Pennan Bay	46	45	45·4	+2·1
	Aberdeen, Cove Bay	47	44	45·7	+1·0
ENGLAND, N.E. ..	Burnmouth, Berwick	44	41	43·0	−0·8
	Scarborough	46	37	41·1	−3·7
ENGLAND, E. ..	Shipwash Lightship	50	46	48·2	+1·1
	Margate‡	47	46	46·6	+1·4
ENGLAND, S.E. ..	Eastbourne‡	50	47	48·0	+0·7

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°	
SCOTLAND, W. ..	Lamlash	50	41	46·8	−1·5
	Ballantrae	48	43	46·1	+1·3
ENGLAND, N.W. ..	Port Erin	51	47	49·3	−0·1
	Newquay	52	51	51·7	+1·7
ENGLAND, S.W. ..	Scilly	53	48	51·4	—
	Plymouth‡	53	49	51·3	+0·2
	Salcombe	52	47	50·2	0·0
IRELAND, N.W. ..	Sheephaven	50	44	46·8	−2·9
	Teelin	51	40	47·1	+0·3
IRELAND, S.W. ..	Cleggan	50	42	47·7	+1·9
	Seafield	55	45	50·8	+2·8
IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked ‡ is supplied by the Scottish Meteorological Society. Stations marked ‡ are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in twelve years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881–1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-EIGHTH WEEK—November 24th to November 30th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (†25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (†25 Yrs.)	Below 42°	Difference from Av. (†25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	52	12	39·4	29·0	34·2	− 6·1	0	− 12	55	+30	6	0	2·59	+1·18	0·8	−0·1	11	− 1
Eastern.																		
1. SCOTLAND, EAST ...	55	1	39·7	28·4	34·1	− 5·2	0	− 11	55	+24	4	+ 1	1·22	+0·53	2·0	+0·9	28	+10
2. ENGLAND, N.E.	55	19	43·0	33·1	38·1	− 3·0	3	− 11	32	+11	5	0	0·73	+0·24	1·1	−0·4	15	− 5
3. ENGLAND, EAST ...	56	26	46·0	35·8	40·9	0·0	11	− 4	25	0	5	+ 2	0·85	+0·35	1·8	+0·2	22	+ 3
4. MIDLAND COUNTIES ...	57	19	43·7	32·8	38·3	− 2·1	5	− 10	34	+ 8	4	0	1·12	+0·59	1·2	−0·2	15	− 3
5. ENGLAND, S.E.	53	23	46·0	36·2	41·1	− 1·3	11	− 10	23	+ 5	5	+ 2	1·16	+0·52	1·5	−0·1	18	− 1
Western.																		
6. SCOTLAND, WEST ...	53	6	42·3	31·3	36·8	− 5·4	1	− 16	38	+21	4	0	1·54	+0·29	1·2	0·0	16	0
7. ENGLAND, N.W.	56	6	44·3	34·3	39·3	− 3·0	6	− 12	29	+14	5	+ 1	1·42	+0·56	1·7	+0·4	21	+ 5
8. ENGLAND, S.W.	56	21	46·3	37·3	41·8	− 1·9	12	− 13	19	+ 5	4	0	1·58	+0·58	1·8	+0·1	23	+ 1
9. IRELAND, NORTH ...	57	18	44·0	34·1	39·1	− 3·2	6	− 12	29	+13	5	0	1·10	+0·23	1·1	−0·4	14	− 5
10. IRELAND, SOUTH ...	55	21	45·8	35·4	40·6	− 3·2	11	− 15	26	+13	5	0	1·20	+0·28	1·5	−0·3	18	− 4
11. ENGLISH CHANNEL ...	54	35	49·2	42·8	46·0	− 1·3	28	− 12	0	− 2	6	+ 1	1·81	+0·91	1·6	−0·3	19	− 4

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 13 Weeks, September 1st to November 30th, 1912.

0. SCOTLAND, NORTH ...	66	12	*	*	*	*	421	−103	104	−13	65	− 1	15·11	−0·49	2·2	−0·1	21	− 1
Eastern.																		
1. SCOTLAND, EAST ...	72	1	*	*	*	*	468	− 85	170	+18	49	− 4	9·39	+0·83	2·4	−0·4	23	− 4
2. ENGLAND, N.E.	70	19	*	*	*	*	555	−101	76	− 9	46	− 4	6·68	−0·61	2·7	−0·4	26	− 3
3. ENGLAND, EAST ...	69	26	*	*	*	*	633	−115	80	−20	45	− 2	6·82	−0·05	3·1	−0·3	29	− 3
4. MIDLAND COUNTIES ...	70	19	*	*	*	*	581	−103	114	− 4	34	−13	6·04	−1·32	2·6	−0·4	24	− 4
5. ENGLAND, S.E.	68	23	*	*	*	*	650	−198	66	− 1	38	− 8	7·85	−0·64	3·3	−0·1	32	− 1
Western.																		
6. SCOTLAND, WEST ...	67	6	*	*	*	*	539	− 92	89	+ 7	50	− 5	11·95	−2·56	2·6	−0·2	25	− 2
7. ENGLAND, N.W.	66	6	*	*	*	*	595	−113	56	− 6	46	− 6	9·30	−1·26	2·8	0·0	27	0
8. ENGLAND, S.W.	72	21	*	*	*	*	677	−144	41	−10	40	−14	9·13	−2·80	3·2	−0·1	31	− 1
9. IRELAND, NORTH ...	67	18	*	*	*	*	623	− 39	57	−14	48	−12	7·48	−3·53	2·5	−0·3	24	− 3
10. IRELAND, SOUTH ...	72	21	*	*	*	*	722	− 53	46	−14	50	− 4	6·51	−4·39	2·9	−0·4	28	− 3
11. ENGLISH CHANNEL ...	68	35	*	*	*	*	948	−129	0	− 4	48	−11	9·73	−0·75	3·8	−0·3	36	− 2

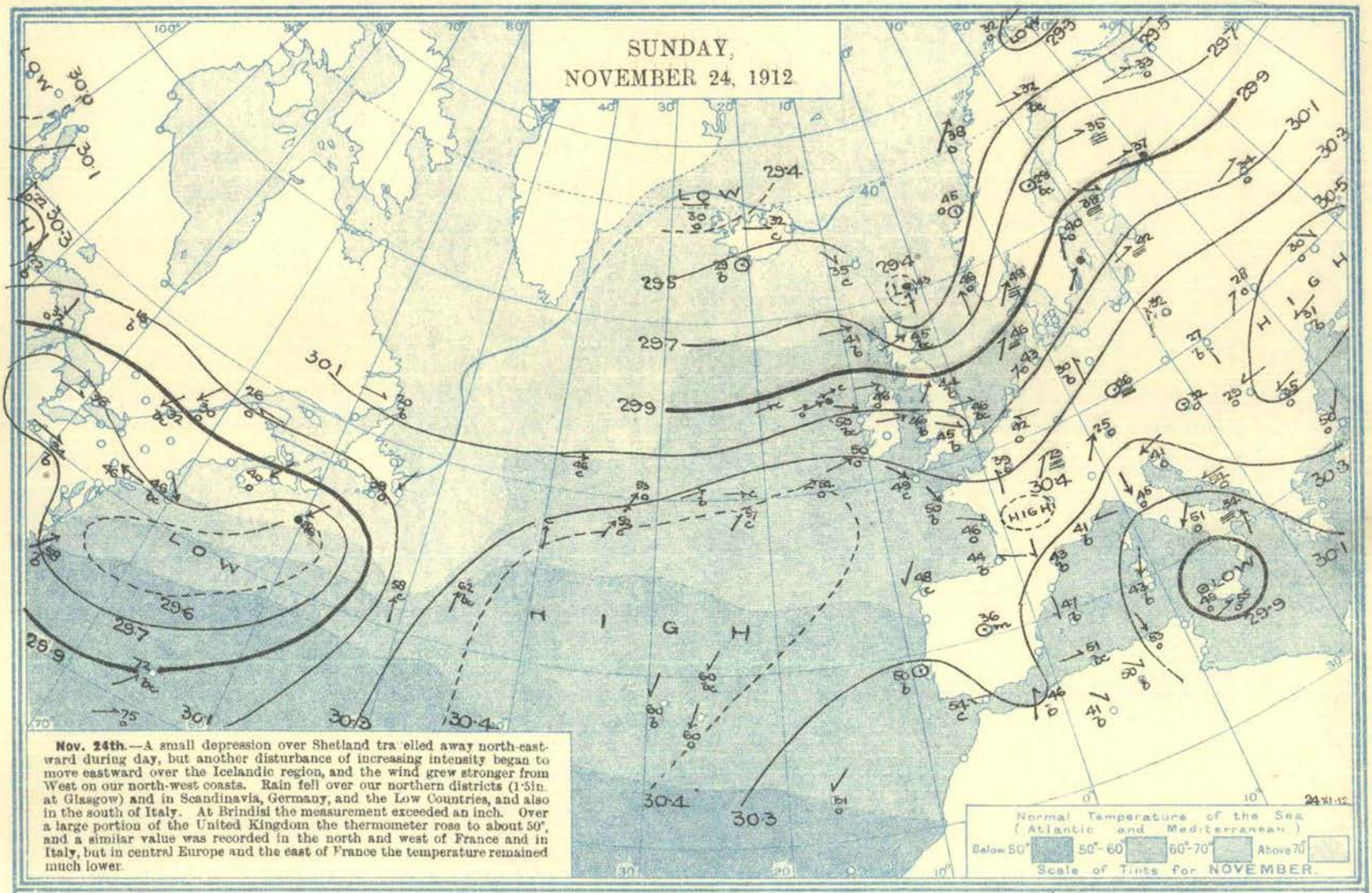
THE YEAR.—Aggregates, &c., for the Period of 48 Weeks, December 31st, 1911, to November 30th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1907	−171	531	−143	225	− 1	45·76	− 1·25	3·0	−0·3	24	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2137	−186	639	− 83	196	+10	30·13	+ 2·00	3·0	−0·9	24	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	2546	− 60	449	−111	190	+20	29·20	+ 6·45	3·3	−0·9	26	− 8
3 ENGLAND, EAST ...	91	14	*	*	*	*	3067	+ 59	354	−267	179	+16	27·29	+ 5·51	4·0	−0·6	32	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2805	−115	487	−164	170	+ 8	31·45	+ 7·33	3·3	−0·8	26	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	3095	−172	284	−164	167	+11	29·21	+ 4·61	4·2	−0·4	34	− 3
Western.																		
6. SCOTLAND, WEST ...	83	6	*	*	*	*	2402	−132	418	− 89	198	+ 3	41·33	− 2·03	3·4	−0·6	27	− 5
7. ENGLAND, N.W.	84	6	*	*	*	*	2647	−128	354	− 94	191	+11	35·39	+ 3·62	3·5	−0·5	28	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2921	−192	230	−122	195	+16	42·15	+ 7·57	3·7	−0·8	30	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2473	−176	294	−122	193	−19	33·96	− 0·91	3·2	−0·5	26	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2880	−181	213	−106	221	+32	37·45	+ 1·37	3·4	−0·8	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3655	− 8	44	− 69	201	+ 9	37·44	+ 8·28	4·7	−0·8	38	− 7

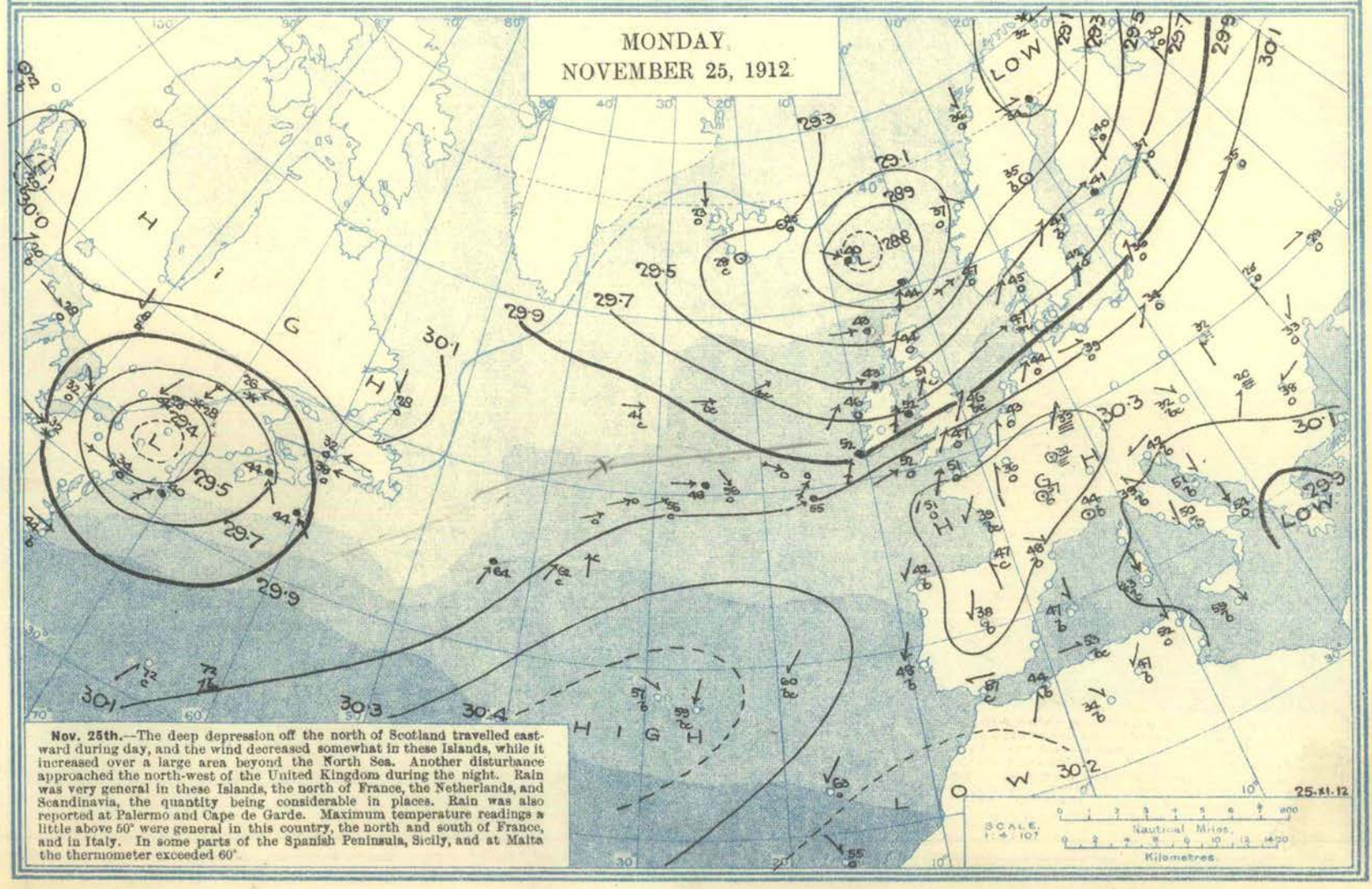
M.O., December 4, 1912.

NOTES ON TABLE IV.

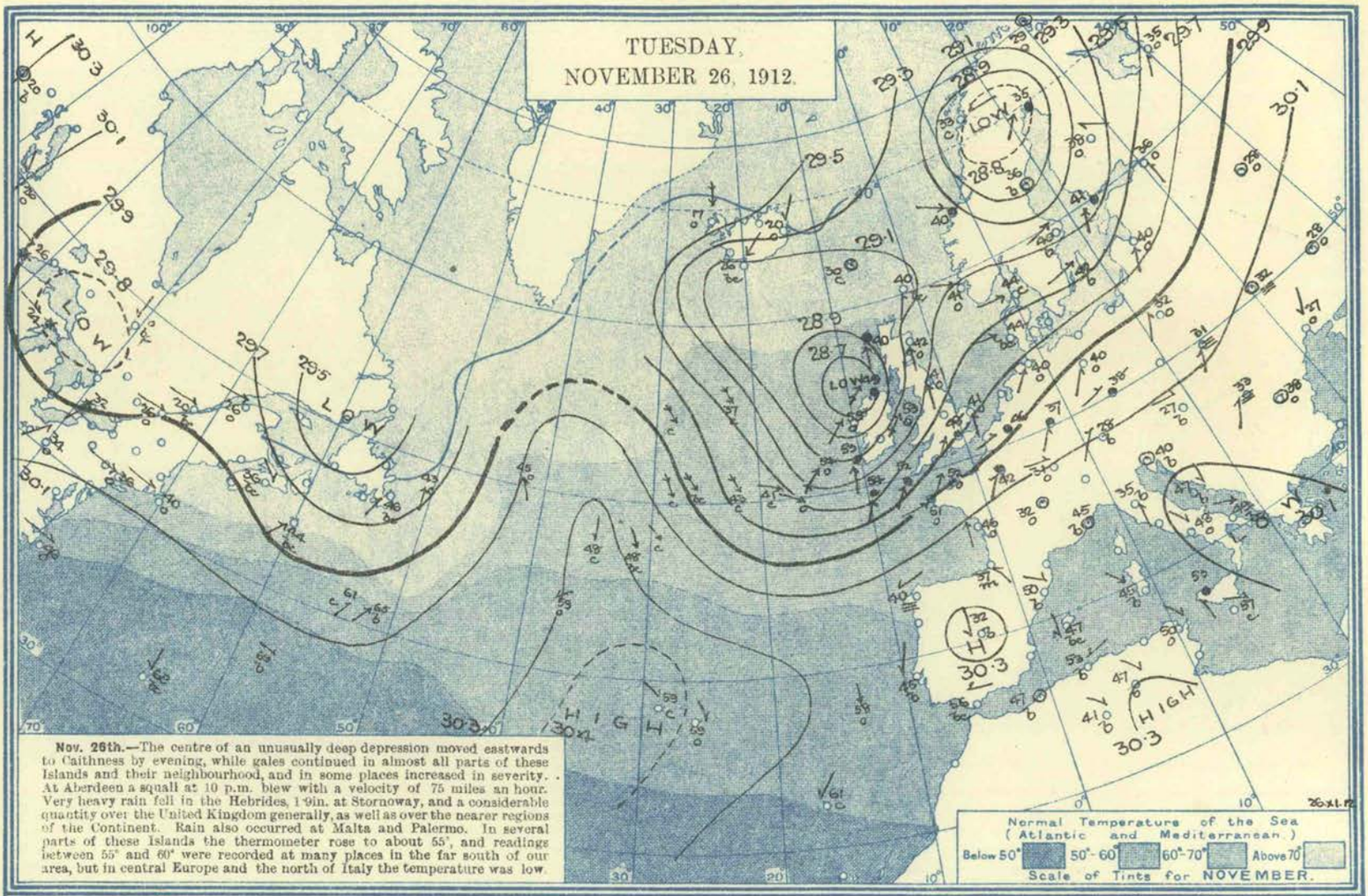
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only



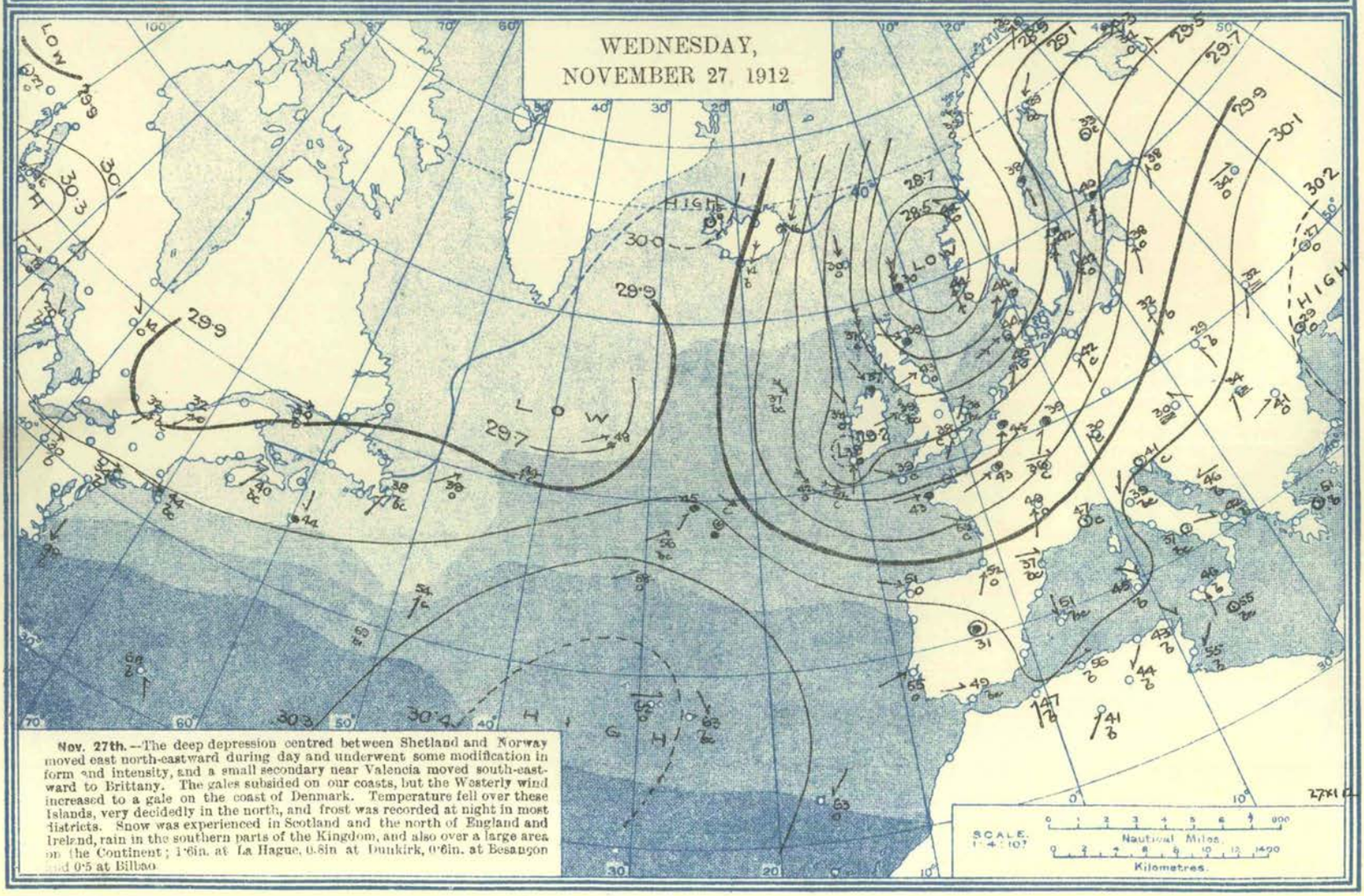
Nov. 24th.—A small depression over Shetland travelled away north-eastward during day, but another disturbance of increasing intensity began to move eastward over the Icelandic region, and the wind grew stronger from West on our north-west coasts. Rain fell over our northern districts (1·5in. at Glasgow) and in Scandinavia, Germany, and the Low Countries, and also in the south of Italy. At Brindisi the measurement exceeded an inch. Over a large portion of the United Kingdom the thermometer rose to about 50°, and a similar value was recorded in the north and west of France and in Italy, but in central Europe and the east of France the temperature remained much lower.



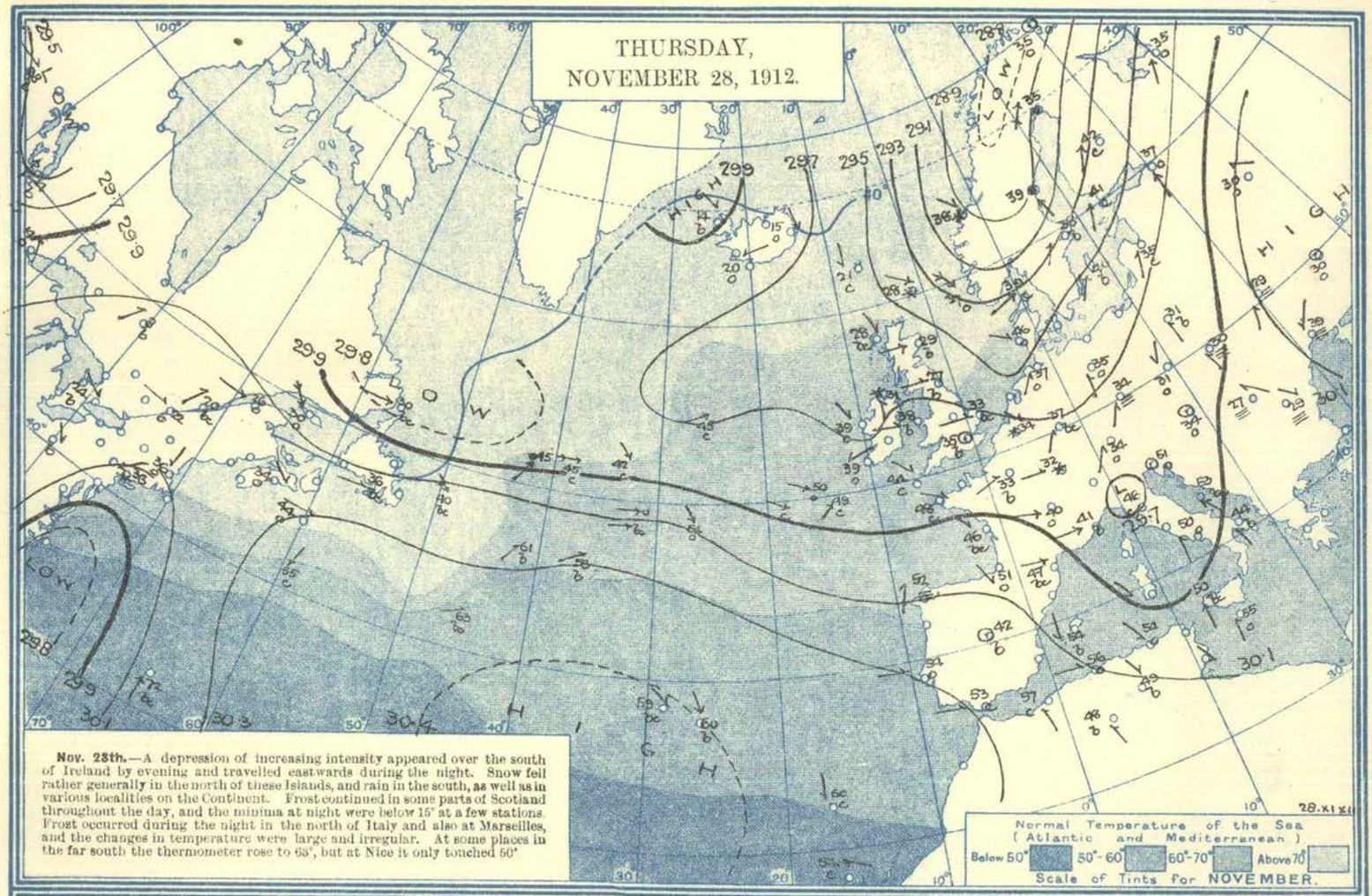
Nov. 25th.—The deep depression off the north of Scotland travelled eastward during day, and the wind decreased somewhat in these Islands, while it increased over a large area beyond the North Sea. Another disturbance approached the north-west of the United Kingdom during the night. Rain was very general in these Islands, the north of France, the Netherlands, and Scandinavia, the quantity being considerable in places. Rain was also reported at Palermo and Cape de Garde. Maximum temperature readings a little above 50° were general in this country, the north and south of France, and in Italy. In some parts of the Spanish Peninsula, Sicily, and at Malta the thermometer exceeded 60°.



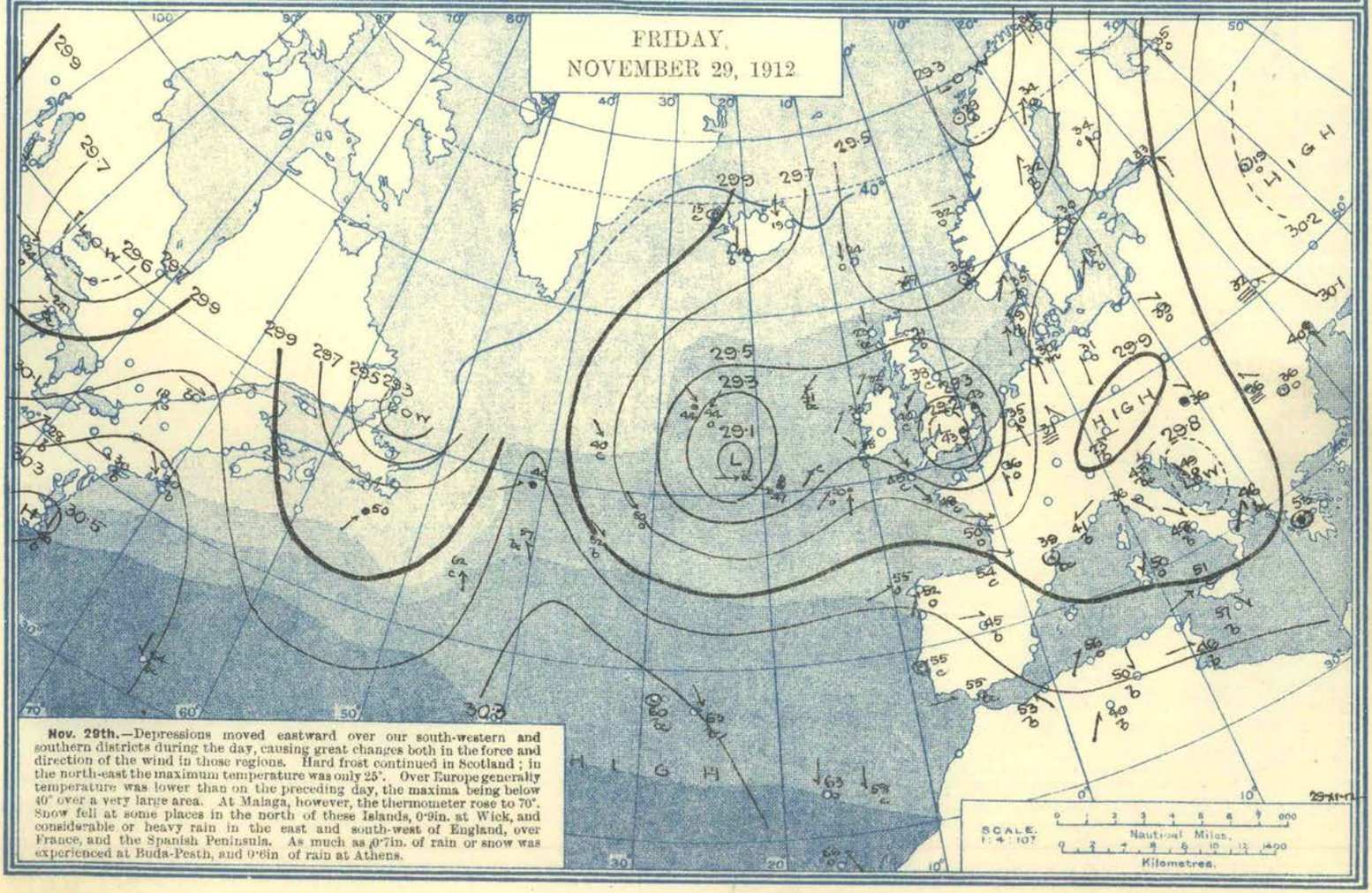
Nov. 26th.—The centre of an unusually deep depression moved eastwards to Caithness by evening, while gales continued in almost all parts of these Islands and their neighbourhood, and in some places increased in severity. At Aberdeen a squall at 10 p.m. blew with a velocity of 75 miles an hour. Very heavy rain fell in the Hebrides, 1·9in. at Stornoway, and a considerable quantity over the United Kingdom generally, as well as over the nearer regions of the Continent. Rain also occurred at Malta and Palermo. In several parts of these Islands the thermometer rose to about 55°, and readings between 55° and 60° were recorded at many places in the far south of our area, but in central Europe and the north of Italy the temperature was low.



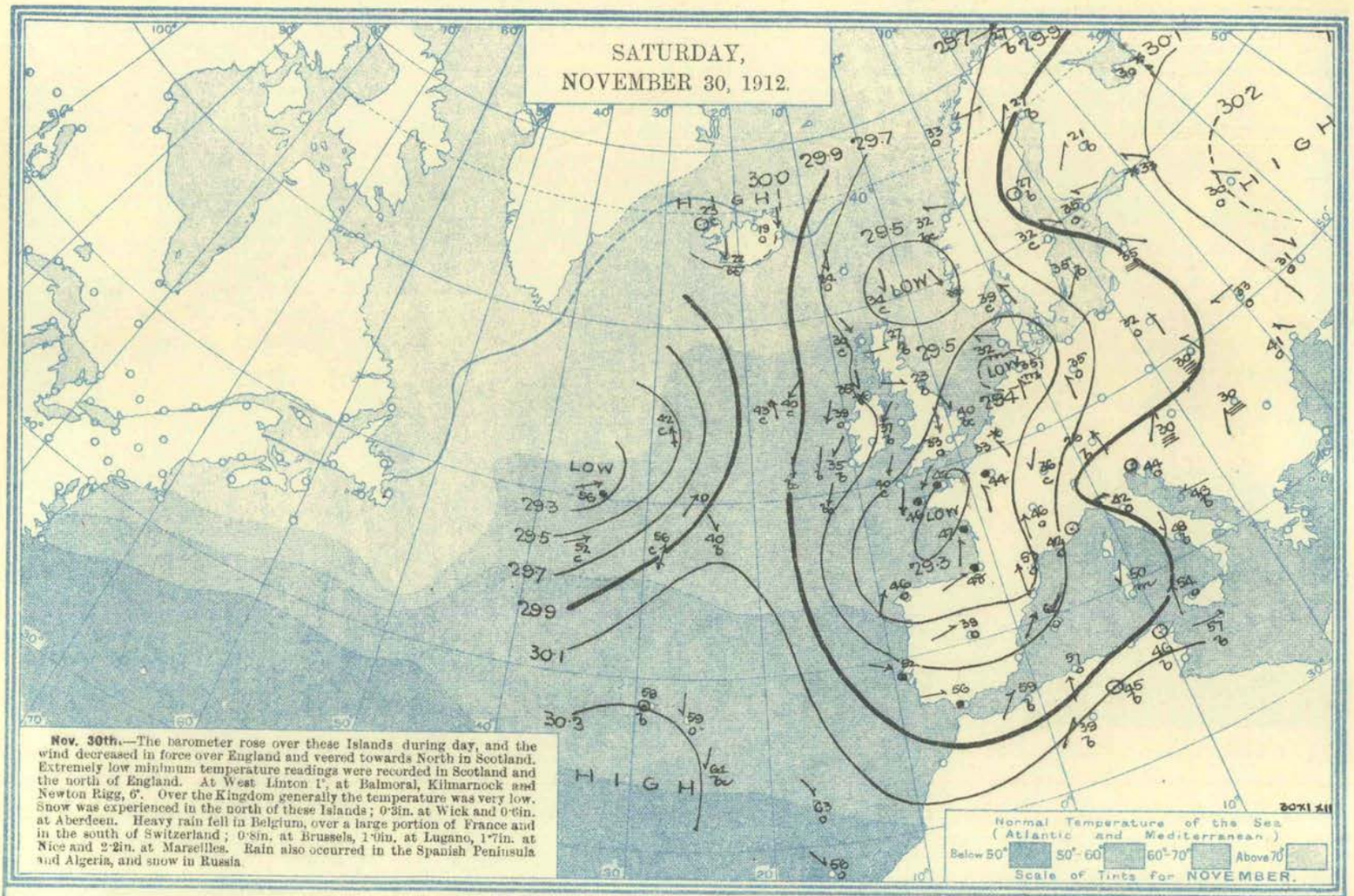
Nov. 27th.—The deep depression centred between Shetland and Norway moved east north-eastward during day and underwent some modification in form and intensity, and a small secondary near Valencia moved south-eastward to Brittany. The gales subsided on our coasts, but the Westerly wind increased to a gale on the coast of Denmark. Temperature fell over these Islands, very decidedly in the north, and frost was recorded at night in most districts. Snow was experienced in Scotland and the north of England and Ireland, rain in the southern parts of the Kingdom, and also over a large area on the Continent; 1·6in. at La Hague, 0·8in. at Dunkirk, 0·6in. at Besançon and 0·5 at Bilbao.



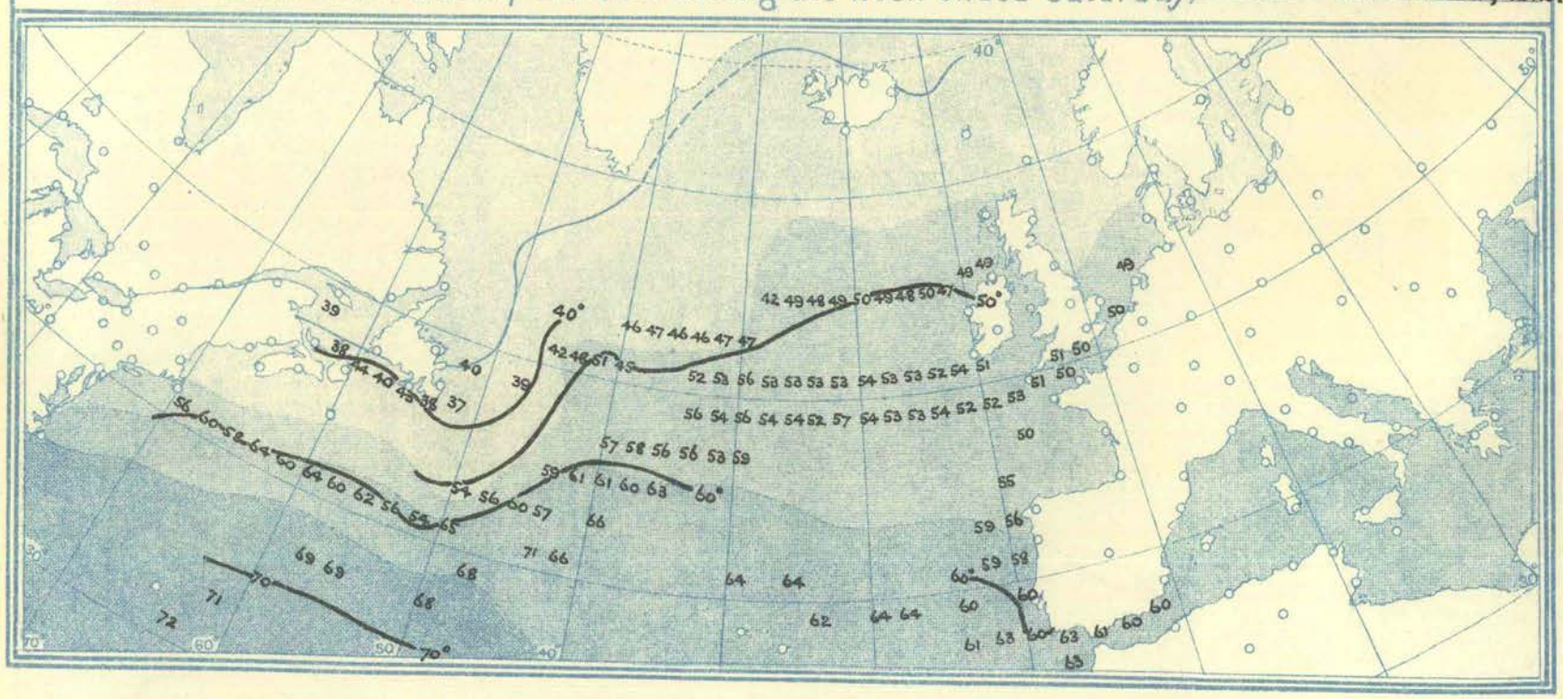
Nov. 28th.—A depression of increasing intensity appeared over the south of Ireland by evening and travelled eastwards during the night. Snow fell rather generally in the north of these Islands, and rain in the south, as well as in various localities on the Continent. Frost continued in some parts of Scotland throughout the day, and the minima at night were below 15° at a few stations. Frost occurred during the night in the north of Italy and also at Marseilles, and the changes in temperature were large and irregular. At some places in the far south the thermometer rose to 65°, but at Nice it only touched 50°



Nov. 29th.—Depressions moved eastward over our south-western and southern districts during the day, causing great changes both in the force and direction of the wind in those regions. Hard frost continued in Scotland; in the north-east the maximum temperature was only 25°. Over Europe generally temperature was lower than on the preceding day, the maxima being below 40° over a very large area. At Malaga, however, the thermometer rose to 70°. Snow fell at some places in the north of these Islands, 0·9in. at Wick, and considerable or heavy rain in the east and south-west of England, over France, and the Spanish Peninsula. As much as 0·7in. of rain or snow was experienced at Buda-Pesth, and 0·6in of rain at Athens.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 30TH NOVEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟶⟶ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and ⊙ = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 193

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* { No. 49. FORTY-NINTH WEEK, SUNDAY, DECEMBER 1ST, TO SATURDAY, DECEMBER 7TH, 1912. *Price 6d. Annual Subscription Post Paid £1 10s. 0d.*

I.—General Remarks.

Weather. The conditions were generally very dull and unsettled. Snow fell over all the north-western, northern, and eastern districts early in the week, and rain was experienced almost daily in Ireland and the west and north-west of Great Britain, and rather frequently in the south and south-east. In the east of Scotland, however, the major portion of the period was dry. Thunder and heavy hail occurred at Bath on the 6th.

Temperature was low at the commencement of the period, the thermometer falling to 2° in Scotland E., 8° in England N.W., 11° in Scotland W., 14° in Scotland N., and to about 20° in many other districts. In the English Channel, the lowest reading was 35°. After the 1st the temperature fluctuated rapidly, but was generally above freezing point except for a time in Scotland. The highest of the maxima, which were recorded at most stations on the 4th, ranged from 57° in England N.W. and over Ireland to 51° in Scotland N. The temperature as a whole was below the average in Scotland and in England N.E. and above it elsewhere. The lowest grass readings were −4° at Worksop, 0° (zero) at Crathes and Balmoral, 1° at West Linton and Newton Rigg, 10° at Burnley, Aspatria, and Blackpool, and 11° at Glasgow and Southport. The temperature of the soil at a depth of 1 foot was below the normal at all stations, and was also below it at many stations at a depth of 4 feet.

Mean Temperature of the Sea. On nearly all parts of the coast the temperature of the water was below the normal, and in most places it was lower than during the corresponding week of last year. At Plymouth, Scilly, and Seafield the mean for the week was between 50° and 51°, but at Cromarty it was only 39°.

Rainfall was above the normal in Ireland and below it in Great Britain, but at Fort William on the 3rd as much as 0·9 in. was recorded, followed by 1·7 in. on the 4th.

Bright Sunshine was less than the average. At several stations in the midlands and north there was none. In England N.E. the mean daily amount was only 0·1 hr., and in England N.W. and Scotland W. 0·2 hr. The highest percentage of the possible duration, 17, occurred in Ireland S.

Barometer and Wind. On Sunday a depression travelled from west to east directly over Ireland and England, but this was followed by a very brisk rise of the barometer, and on Tuesday a ridge of high pressure extended from the southward to beyond Scotland. This also passed on to the eastward, and during the remainder of the week very large depressions, having their centres on the Atlantic to the westward or north-westward, extended over the United Kingdom, and caused a current of wind from the Southward and South-Westward. On many parts of the coast fresh or strong breezes were experienced at times, and at some exposed places, mostly on the extreme north-west coasts, high winds and gales occurred.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 195.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Unusual	Unusual	Moderate
	Rainfall ...	Moderate	Light	Light	Moderate	Moderate	Moderate	Light	Light	Light	Moderate	Moderate	Light
	Sunshine ...	Moderate	Moderate	Very scanty	Scanty	Scanty	Moderate	Very scanty	Scanty	Scanty	Scanty	Moderate	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 1 week from Dec. 1st, 1912.	Warmth ...	0 * 1	0 * 1	0 * 1	0 * 0	0 * 0	0 * 0	0 * 1	0 * 0	0 * 0	1 * 0	1 * 0	0 * 0
	Rainfall ...	0 * 0	0 * 1	0 * 1	0 * 0	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 0	0 * 0	0 * 1
	Sunshine ...	0 * 0	0 * 0	0 * 1	0 * 1	0 * 1	0 * 0	0 * 1	0 * 1	0 * 1	0 * 1	0 * 0	0 * 1

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th, 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(27557—24.) Wt. 173—814. 450. 12/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.														Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*48*	*4th*	*28*	*1st*	*44·1*	*37·6*	*41·0*	—	*6*	*18*	*	*	38·4	*	*	*	*7*	*0·78*	—	*0·0*	—	*0*	—	*Baltasound.*
a, Islands .. *a* Lerwick	49	4th	27	1st	44·3	37·4	41·0	− 0·3	6	19	*	*	*	*	*	*	7	0·66	—	0·3	− 0·5	5	− 8	Deerness.
a Stornoway	51	4th	16	2nd	45·7	32·4	39·3	− 1·8	10	38	*	*	*	*	*	*	6	0·92	− 0·45	0·6	− 0·4	9	− 6	Stornoway.
a Castlebay, Barra Isd.	*52*	*3rd*	*26*		*47·7*	*38·9*	*43·5*	+ *0·2*	*24*	*9*	*	*	*	*	*	*	*7*	*1·36*	—	*0·5*	—	*7*	—	*Castlebay.*
a Wick	48	3-5	20	2nd	43·1	31·6	37·6	− 2·6	3	39	*	*	*	*	*	*	4	0·44	− 0·22	*	*	*	*	*
b, Main- *p* Strathpeffer ..	51	4th	14	1st	42·4	28·6	35·8	− 2·9	1	49	*	*	*	*	*	*	3	0·43	− 0·28	1·0	0·0	15	0	Strathpeffer.
land. *p* Glencarron ..													*	*	*	*				*	*	*	*	*
p Fort Augustus..	51	4, 5, 7	15	3rd	42·9	30·1	36·8	− 2·9	3	44	*	*	*	*	*	*	4	0·93	− 0·24	0·5	+ 0·2	8	+ 4	Fort Augustus.
p Fort William ..	51	7th	15	2, 3	42·9	31·4	37·4	− 4·0	3	39	*	*	*	*	*	*	5	3·32	+ 1·22	*	*	*	*	*
1. SCOTLAND, E.											4	0	35·1	−3·8	41·3	−0·8	—	—	—	1·2	—	17	—	Crathes S.
p Gordon Castle.. S	54	4th	11	2nd	45·0	30·1	37·9	− 2·0	8	46	*	*	*	*	*	*	3	0·22	− 0·34	*1·4*	—	*21*	—	*Gordon Castle.*
a Nairn	53	4th	8	2nd	43·6	24·7	34·5	− 4·6	4	64	*	*	*	*	*	*	3	0·35	− 0·13	1·3	—	19	—	Nairn.
a Aberdeen	52	4th	9	2nd	43·1	27·7	35·7	− 4·3	3	53	*	*	*	*	42·5	−0·6	2	0·14	− 0·53	1·3	− 0·1	19	− 2	Aberdeen.
a Balmoral ..	50	4th	2	2nd	41·6	24·7	33·5	− 2·7	0	60	4	0	*	*	*	*	3	0·08	− 0·72	*	*	*	*	Balmoral.
p Crieff	50	4th	20	1st	40·6	28·3	34·7	− 4·5	0	51	*	*	*	*	*	*	4	0·98	0·00	0·8	—	12	—	Balruddery.
a Leith	56	4th	21	3rd	46·7	31·0	39·2	− 1·9	13	44	*	*	*	*	*	*	3	0·07	− 0·37	*	*	*	*	*
p West Linton .. S	51	4th	8	3rd	42·4	24·1	33·6	− 4·5	1	65	5	1	*	*	*	*	5	0·20	—	*0·1*	—	*1*	—	*West Linton.*
p Marchmont ..	51	4th	19	3rd	42·6	29·9	36·5	− 2·1	2	45	4	13	35·0	−3·0	*	*	2	0·16	− 0·46	0·1	− 1·1	1	−16	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	55	4th	21	1, 3	44·6	29·4	37·3	− 3·1	7	48	5	15	35·5	−2·6	41·9	0·0	3	0·21	− 0·46	0·0	—	0	—	Cockle Park.
a Shields	54	4th	20	1st	45·4	29·1	37·6	− 3·5	10	50	*	*	*	*	*	*	4	0·32	− 0·12	*	*	*	*	*Newcastle.*
p Durham	53	4th	20	1st	42·6	30·6	36·8	− 2·4	2	42	4	12	*	*	*	*	4	0·37	− 0·08	0·0	− 1·4	0	−20	Durham.
a, North .. *p* Rounton	52	4th	19	1st	43·6	31·3	37·7	− 1·5	4	40	6	15	36·5	*	*	*	4	0·27	− 0·14	*	*	*	*	Rounton.
a West Witton ..	*53*	*4th*	*19*	*1st*	*45·1*	*29·9*	*37·8*	—	*9*	*47*	5	17	38·0	*	43·5	*	*4*	*0·26*	—	*	*	*	*	*West Witton.*
p Scarborough ..	51	4th	25	1st	42·9	32·4	37·9	− 3·6	3	56	*	*	*	*	45·1†	*	4	0·39	− 0·14	0·2	—	3	—	Scarborough.
p York	52	4th	21	1st	43·9	32·4	38·4	− 2·1	5	37	*	*	39·2	−2·2	45·4	−0·1	4	0·50	+ 0·06	0·0	− 0·9	0	−12	York.
a Spurn Head ..	50	4th	28	1st	44·6	34·3	39·7	− 2·1	7	31	3	19	37·6	−2·6	45·7	−0·3	4	0·79	+ 0·38	*0·0*	—	*0*	—	*Hull.*
b South .. *a* Lincoln	53	4th	22	1st	46·1	31·4	39·0	− 1·0	11	42	*	*	35·9	−4·3	44·6	−0·7	4	0·57	+ 0·14	*	*	*	*	Lincoln.
a Fulbeck	53	4th	22	1st	46·3	31·0	39·0	− 0·1	12	44	6	15	38·3	−3·0	46·3	−0·1	6	0·68	+ 0·25	0·2	—	3	—	Rauceby.
											*	*	*	*	*	*	—	—	—	0·2	—	3	—	Skegness.
3. ENGLAND, E.											2	22	40·6	−1·6	46·9	−0·3	—	—	—	*0·4*	—	*5*	—	*Lowestoft.*
p Cromer	51	4th	26	1st	45·9	32·7	39·6	+ 0·1	11	37	*	*	*	*	*	*	5	0·41	—	0·3	—	4	—	Cromer.
p Little Massingham ..	*50*	*4th*	*24*	*1st*	*44·3*	*32·8*	*38·8*	− *0·7*	*6*	*36*	4	17	*	*	*	*	*5*	*0·68*	—	*0·5*	—	*7*	*	*Little Massingham.*
a, North .. *a* Yarmouth	51	4th	28	1st	46·1	34·9	40·7	− 0·2	11	29	*	*	39·9	−1·4	46·6	+0·2	4	0·40	− 0·10	0·5	—	7	—	Yarmouth.
a Norwich	49	3, 6, 7	25	1st	46·3	32·0	39·4	− 0·8	12	40	5	20	38·7	*	*	*	5	0·43	—	*0·3*	—	*4*	—	*Norwich.*
p Geldeston	52	6th	25	1st	45·4	34·4	40·1	− 0·9	10	30	*	*	*	*	*	*	5	0·41	− 0·08	0·4	− 1·3	5	−17	Geldeston.
p Cambridge	52	4th	24	1st	46·4	34·7	40·8	+ 0·4	12	30	6	18	39·3	−1·7	46·3	0·0	5	0·23	− 0·16	0·1	− 1·3	1	−17	Cambridge.
a Felixstowe	*49*	*4th*	*26*	*1st*	*45·9*	*34·1*	*40·2*	− *1·4*	*11*	*32*	*	*	*	*	*	*	*4*	*0·26*	—	*0·8*	—	*10*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	47	4, 6, 7	26	1st	45·1	34·1	39·8	− 1·7	9	31	2	21	41·6	−2·8	47·1	−1·0	4	0·28	—	0·3	—	4	—	Clacton.
a Rothamsted	51	4, 6, 7	24	1st	48·9	31·1	40·4	+ 0·2	19	46	*	*	*	*	*	*	7	0·42	− 0·15	0·8	− 0·7	10	− 9	Rothamsted.
a Shoeburyness	*51*	*4th*	*26*	*1st*	*47·1*	*35·3*	*41·4*	− *0·6*	*14*	*28*	7	17	41·3	−1·9	*	*	*3*	*0·22*	− *0·14*	*0·3*	—	*4*	—	*Southend.*
p Tottenham	54	2nd	27	1st	49·1	37·6	43·6	+ 2·4	30	12	4	19	*	*	47·5	0·0	2	0·28	—	0·6	—	8	—	Tottenham.
4. MIDLAND COUNTIES.											3	17	37·6	−2·1	45·2	+0·9	—	—	—	*0·4*	—	*5*	—	*Huddersfield.*
a Harrogate	52	4th	21	1st	41·4	30·9	36·4	− 2·9	0	39	4	17	39·2	−1·4	43·1	+0·2	4	0·46	− 0·14	0·0	—	0	—	Harrogate.
a Bawtry	52	4th	20	1st	46·7	30·7	39·0	− 0·7	13	45	6	−4	38·8	*	44·0	*	5	0·54	+ 0·10	0·0	− 1·1	0	−15	Worksop.
p Buxton	*50*	*4th*	*22*	*1st*	*43·6*	*32·3*	*38·2*	+ *0·3*	*4*	*37*	6	10	39·2	−0·3	45·3	+0·2	*5*	*1·34*	+ *0·21*	*0·0*	—	*0*	—	*Buxton.*
a East .. *a* Nottingham	54	4th	23	1st	48·1	31·4	40·1	− 0·1	17	44	5	18	37·3	−2·6	43·2	−0·7	4	0·48	+ 0·02	0·0	—	0	—	Nottingham.
p Birmingham, Edgbsn.	51	4th	26	1st	46·4	36·1	41·5	+ 1·5	12	25	5	16	40·9	−1·2	46·7	−0·1	5	0·29	− 0·25	0·4	—	5	—	Birmingham.
a Raunds	52	4th	22	1st	48·0	30·9	39·8	− 0·1	17	46	6	16	40·5	*	48·4	*	5	0·30	—	*	*	*	*	Raunds.
a Oxford	52	4, 7	26	1st	49·3	33·7	41·8	+ 1·1	20	36	4	21	*	*	*	*	4	0·40	− 0·10	1·1	− 0·3	14	− 4	Oxford.
											5	19	39·1	−1·4	45·6	+0·2	—	—	—	0·1	—	1	—	Sheffield.
a Cheadle	50	4, 7	27	1st	45·4	33·1	39·5	+ 0·4	10	35	6	22	*	*	*	*	4	0·55	− 0·10	*	*	*	*	Cheadle.
p Shrewsbury	55	4th	28	1st	49·4	36·3	43·1	+ 1·0	32	16	5	23	*	*	*	*	3	0·18	—	*	*	*	*	Shrewsbury.
b, West .. *a* Hereford	52	4, 7	25	1st	48·9	32·4	41·0	+ 0·5	19	41	3	19	*	*	*	*	4	0·19	− 0·35	*	*	*	*	Hereford.
a Cirencester ..	54	6th	23	1st	48·6	28·3	38·9	− 0·6	18	56	5	20	40·2	*	45·5	*	6	0·55	− 0·08	1·0	− 0·4	13	− 6	Cirencester.
a Bath	55	4, 7	26	1st	51·9	31·1	41·9	+ 0·3	28	48	*	*	41·0	−2·9	48·4	+0·2	4	0·56	− 0·13	1·0	—	13	—	Bath.
5. ENGLAND, S.E.											3	22	41·9	−1·4	48·4	+2·8	—	—	—	*	*	*	*	Canterbury
p Kew	51	4th	26	1st	47·0	36·6	42·0	+ 0·6	14	15	4	12	40·6	−1·6	47·1	+0·1	4	0·30	− 0·17	0·8	− 0·6	10	− 8	Kew.
a Marlborough	52	4, 7	22	1st	49·0	30·7	40·2	+ 0·3	20	47	6?	14	*	*	47·0	*	5	0·70	+ 0·02	0·9	− 0·3	11	− 4	Marlborough.
a Margate	51	4th	29	1st	48·6	36·9	43·0	+ 0·7	28	14	*	*	42·9	−0·8	46·3	+0·1	5	0·21	− 0·47	0·3	− 1·3	4	−17	Margate.
a Wisley, Surrey ..	51	6, 7	26	1st	49·1	33·4	41·6	− 0·2	20	38	6	17	40·2	−2·2	45·8	−0·7	4	0·33	—	1·0	—	13	—	Wisley
a Swarraton	51	7th	24	1st	48·4	30·3	39·7	− 0·8	18	48	3	18	42·0	−1·5	48·2	+0·2	5	0·75	+ 0·05	1·9	—	24	—	Worthing.
a Tunbridge Wells ..	49	4-7	25	1st	47·6	32·3	40·3	− 0·6	16	40	6	19	40·3	−1·5	*	*	5	0·70	0·00	1·2	− 0·4	15	− 5	Tunbridge Wells.
a Dungeness	51	4-7	22	1st	49·9	34·7	42·6	− 0·6	35	20	*	*	*	*	*	*	2	0·29	− 0·24	1·0	—	13	—	Littlestone.
p Hastings..	50	6, 7	26	1st	48·0	39·1	43·7	+ 0·8	24	8	1	23	41·2	*	47·5	*	5	0·38	− 0·28	*1·4*	− *0·5*	*18*	− 7	*Hastings.*
p Southampton	52	4, 6, 7	25	1st	49·6	36·7	43·4	+ 0·7	32	15	3	18	*	*	*	*	5	0·47	− 0·22	1·0	− 0·6	13	− 8	Southampton
a Ventnor	53	6th	29	1st	50·7	39·0	45·1	− 0·1	34	8	*	*	*	*	*	*	4	0·23	− 0·49	1·4	− 0·3	18	− 4	Ventnor.
											3	19	42·6	−2·1	47·5	−1·2	—	—	—	*1·4*	—	*18*	—	*Portsmouth.*
											*	*	43·7	*	48·9	*	—	—	—	1·5	− 0·3	19	− 3	Eastbourne.
											*	*	42·0	*	45·4	*	—	—	—	*1·2*	—	*15*	—	*Bournemouth.*
LONDON.											1	23	*	*	46·4	*	—	—	—	*1·1*	*− 0·6*	*14*	*− 3*	*Brighton.*
a Westminster	*52*	*4, 6, 7*	*26*	*1st*	*50·3*	*34·7*	*42·8*	+ *1·3*	*36*	*20*	3	21	*	*	*	*	*4*	*0·26*	− *0·22*	*0·3*	− *0·2*	*4*	− 3	*Westminster.*
a Greenwich	*52*	*4th*	*26*	*1st*	*49·3*	*33·0*	*41·5*	+ *0·3*	*20*	*39*	6	18	*	*	*	*	*5*	*0·32*	− *0·15*	*0·7*	− *0·5*	*9*	*− 6*	*Greenwich.*
a Hampstead ..	*50*	*6, 7*	*24*	*1st*	*47·9*	*34·1*	*41·3*	—	*17*	*34*	4	17	*	*	*	*	*4*	*0·30*	—	*0·7*	—	*9*	—	*Hampstead.*
a Camden Square ..	*52*	*4, 6*	*23*	*1st*	*50·0*	*32·7*	*41·7*	—	*22*	*41*	5	19	*	*	*	*	*4*	*0·28*	—	*0·6*	—	*8*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	52	4th	19	1st	44·9	32·6	39·0	− 2·2	8	37	*	*	*	*	*	*	6	1·47	+ 0·22	*	*	*	*	*
p Glasgow	53	4th	23	1, 3	44·7	34·1	39·6	− 1·2	8	31	4	11	*	*	*	*	6	0·36	− 0·53	0·0	− 0·5	0	− 7	Glasgow.
p Rothesay .. S	53	4, 5	24	1st	45·3	35·3	40·5	− 1·2	9	27	*	*	*	*	44·8	+0·5	7	1·10	− 0·02	*	*	*	*	*
a Kilmarnock ..	54	4th	11	1st	45·3	29·3	37·6	− 3·7	9	49	*	*	*	*	*	*	6	0·51	—	*0·0*	—	*0*	—	*Kilmarnock.*
a Colmonell ..	53	4, 5	16	1st	47·0	32·4	40·0	− 1·6	14	39	3	18	*	*	*	*	6	0·91	− 0·27	*	*	*	*	*
p Dumfries	50	4th	14	1st	44·3	30·7	37·8	− 2·6	6	43	4	13	37·1	*	43·7	*	7	0·44	− 0·46	*0·1*	—	*1*	—	*Dumfries.*
p Cally, Gatehouse	51	4th	18	1, 3	46·0	33·0	39·8	− 0·6	11	36	*	*	*	*	*	*	5	0·94	− 0·29	*	*	*	*	*
b I. OF MAN																								
p Douglas	52	4th	29	1st	48·0	39·9	44·1	+ 0·8	24	6	3	23	*	*	*	*	7	1·25	+ 0·15	0·4	− 1·1	5	−15	Douglas.
											5	10	37·4	−2·3	44·6	+0·4	—	—	—	*0·1*	—	*1*	—	*Burnley.*
											3	25	*	*	*	*	—	—	—	0·4	—	5	—	Hoylake.
7. *a*, ENGLAND, N.W.																								
p Aspatria	52	4, 7	18	1st	45·7	32·3	39·3	− 1·1	10	39	4	10	39·5	*	46·3	*	4	0·30	− 0·63	0·1	—	1	—	Aspatria.
p Newton Rigg	51	4th	8	1st	43·4	28·1	36·1	− 2·8	4	52	7	1	38·9	−1·4	43·7	0·0	5	0·37	− 0·49	0·1	− 1·1	1	−15	Newton Rigg.
p Stonyhurst	52	4th	22	1st	43·7	33·4	38·8	− 1·8	5	33	5	15	*	*	*	*	4	1·24	+ 0·23	0·1	− 0·9	1	−12	Stonyhurst.
p Blackpool	53	4th	23	1st	46·1	34·6	40·6	− 1·0	11	31	5	10	40·9	*	47·2	*	7	0·75	+ 0·02	0·2	− 0·8	3	−11	Blackpool.
p Manchester (Whit. Pk.)	*53*	*4th*	*23*	*1st*	*47·6*	*36·4*	*42·2*	—	*25*	*16*	4	13	*	*	*	*	*4*	*0·35*	—	*0·0*	—	*0*	—	*Whit. Park.*
a Liverpool (Bidston) ..	54	3, 4	26	1st	48·9	34·7	42·1	+ 0·4	31	20	*	*	*	*	*	*	6	0·27	− 0·28	*0·4*	—	*5*	—	*Liverpool.*
a Hawarden Bridge ..	56	3rd	25	1st	50·1	34·9	42·8	0·0	55	20	4	11	37·9	−1·8	43·9	+0·3	4	0·42	− 0·08	*0·1*	*− 1·0*	*1*	*−13*	*Southport.*
											2	21	38·4	−2·3	46·3	+0·4	—	—	—	*0·0*	—	*0*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	54	4th	34	1, 2	49·3	39·0	44·4	+ 0·3	29	8	*	*	*	*	*	*	5	0·16	− 0·50	0·5	− 0·8	7	−11	Llandudno.
a Holyhead	52	4th	36	1, 2	49·4	41·0	45·4	+ 0·8	28	3	*	*	*	*	*	*	7	0·72	− 0·19	0·3	—	4	—	Aberdovey.
p Bettws-y-Coed ..	57	3rd	32	3rd	51·7	36·6	44·5	+ 0·8	40	15	3	23	41·7	0·0	46·1	+0·3	5	1·34	—	0·1	—	1	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.															Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																								
a Llangammarch Wells	53	7th	32	1st	49·1	32·1	40·9	+ 1·1	20	42	3	18	40·6	−2·2	47·0	−0·3	5	0·72	—	0·5	—	7	—	Aberystwyth.
a Pembroke	54	5, 7	32	1st	52·0	43·3	47·8	+ 1·8	41	0	*	*	*	*	*	*	6	0·63	− 0·27	0·2	—	3	—	Llangammarch
p Cardiff	52	4, 7	28	1st	49·0	37·0	43·2	+ 1·7	29	14	3	22	41·0	−1·5	47·0	+0·4	5	0·57	− 0·43	0·5	− 1·1	6	−15	Pembroke.[Wells
																				1·0	—	*13*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	54	4, 7	28	1, 2	50·6	35·0	43·1	+ 0·5	37	20	3?	20	*	*	*	*	4	0·45	− 0·32	*0·9*	—	*11*	—	*Clifton.*
a Shaftesbury	50	7th	30	1st	47·6	34·6	41·4	+ 0·4	16	32	*	*	40·2	*	46·5	*	5	0·73	+ 0·07	*	*	*	*	Shaftesbury.
a Shaftesbury	52	7th	28	1st	49·3	35·7	42·8	+ 0·5	32	18	*	*	45·7	*	*	*	5	0·58	− 0·78	1·1	− 0·8	14	−10	Newquay.
a Arlington	52	7th	28	1st	49·3	35·7	42·5	+ 0·5	32	18	*	*	*	*	*	*	6	0·83	− 0·01	0·7	− 0·7	9	− 9	Cullompton.
a Cullompton	53	4, 7	24	1st	50·6	34·0	42·6	+ 0·2	38	22	3	20	42·8	*	*	*	3	0·60	—	*1·1*	—	*14*	—	*Weymouth.*
a Portland	52	3, 4, 6, 7	33	1, 2	51·3	40·4	46·1	+ 1·0	35	4	*	*	*	*	*	*	5	0·62	− 0·33	0·9	− 0·8	11	−10	Plymouth.
p Plymouth	53	4, 7	26	1st	51·4	42·2	47·0	+ 1·9	35	0	2	19	44·0	−1·6	*	*	4	0·56	− 0·69	1·7	− 0·2	21	− 3	Falmouth.
p Falmouth	53	3, 7	35	1st	51·1	43·9	47·6	+ 1·3	39	0	*	*	*	*	*	*								
9. IRELAND, N.																								
a Malin Head	54	4th	31	2nd	50·3	38·4	44·6	+ 1·4	33	10	*	*	*	*	*	*	7	0·87	+ 0·12	*	*	*	*	*
a, West .. *a* Blacksod Point ..	55	3, 6	32	1st	52·7	42·3	47·7	+ 2·9	40	0	*	*	*	*	*	*	7	3·05	+ 1·75	*	*	*	*	*
p Markree Castle ..	55	3, 4	25	1st	50·8	38·6	44·8	+ 3·1	34	10	1	20	43·6	*	47·9	*	5	1·15	+ 0·14	0·5	− 0·8	7	−11	Markree Castle.
a Birr Castle	57	3rd	20	1st	51·3	37·3	44·6	+ 2·9	38	13	*	*	*	*	*	*	6	0·33	− 0·39	*1·4*	*− 0·3*	*18*	*− 4*	*Birr Castle.*
b, East .. *p* Armagh	55	4th	25	1st	48·4	38·1	43·5	+ 2·0	27	11	2	20	40·9	−0·6	45·8	0·0	6	0·47	− 0·19	0·4	− 1·0	5	−13	Armagh.
a Donaghadee	53	4th	27	1st	48·6	37·7	43·4	+ 0·6	28	12	*	*	*	*	*	*	4	0·76	+ 0·06	*	*	*	*	*
											3	22	42·0	−0·5	46·2	−0·1	—	—	—	*	*	*	*	Trinity Coll.
											2	20	*	*	*	*	—	—	—	1·0	− 0·8	13	−11	Phœnix Park.
10. IRELAND, S.																								
p Dublin, City	56	3, 4	29	1st	51·3	41·4	46·6	+ 2·5	35	2	1	26	*	*	*	*	4	0·10	− 0·43	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	55	3, 7	23	1st	50·1	37·6	44·1	+ 1·9	33	12	*	*	*	*	*	*	7	0·99	+ 0·25	*	*	*	*	*
a Waterford	52	3, 4	25	1st	50·4	39·3	45·1	+ 1·7	33	8	*	*	*	*	*	*	7	1·37	+ 0·42	*	*	*	*	*
a Birr Castle	57	3rd	20	1st	51·3	37·3	44·6	+ 2·9	38	13	*	*	*	*	*	*	6	0·33	− 0·39	1·4	− 0·3	18	− 4	Birr Castle.
a Foynes	55	4th	30	1st	52·1	42·0	47·3	+ 3·1	37	0	*	*	*	*	*	*	7	1·01	+ 0·01	*	*	*	*	*
a Cahir	54	3rd	23	1st	51·0	37·9	44·7	+ 1·5	36	11	*	*	*	*	*	*	7	1·27	—	*	*	*	*	*
b, West .. *a* Killarney	56	3rd	33	1st	52·4	42·1	47·5	+ 3·0	39	0	*	*	*	*	*	*	7	2·38	+ 0·83	*	*	*	*	*
a Valencia	56	3rd	30	1st	53·4	43·9	48·8	+ 2·3	48	0	*	*	*	*	*	*	7	1·90	+ 0·50	1·4	− 0·2	18	− 3	Valencia.
a Roche's Point ..	52	3, 4, 7	31	1st	51·1	42·6	47·0	+ 1·4	35	0	*	*	*	*	*	*	7	0·95	− 0·18	1·3	—	16	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	3, 5, 6, 7	37	1st	53·3	45·1	49·4	+ 0·8	52	0	*	*	*	*	*	*	6	0·33	− 0·53	1·6	− 0·3	20	− 4	Scilly.
a Jersey, St. Aubins ..	55	2nd	35	2nd	51·9	38·7	45·6	− 0·7	39	9	*	*	*	*	*	*	5	0·33	− 0·57	1·3	− 0·9	16	−11	St. Heliers.
a Guernsey (Villa Carey)	53	3, 6, 7	37	1st	51·4	42·0	46·9	+ 0·1	34	0	1	27	45·5	−1·4	49·9	−0·6	6	0·59	− 0·41	0·6	− 1·0	7	−12	Guernsey.*

Additional Sunshine Means:—*Bognor, 1·7 hrs. 21 %; Ramsgate, 0·6 hrs. 8 %; Rhyl, 0·8 hrs. 11 %; Salcombe, 1·1 hrs. 14 %; Tenby, 0·7 hrs. (−0·9) 9 % (− 12 %); Torquay, 1·5 hrs. (−0·3) 19 % (−4 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, December 7th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	45	43	44·2	−1·1	SCOTLAND, W. ..	Lamlash	49	42	45·6	−2·3
	Kirkwall	43	37	40·7	−2·2		Ballantrae	45	42	43·6	−0·9
	Wick	46	45	45·3	−1·4	ENGLAND, N.W. ..	Port Erin	49	47	48·4	−0·7
SCOTLAND, E. ..	Cromarty	43	34	39·1	−3·1		Newquay	51	51	51·0	+1·8
	Pennan Bay	43	39	39·9	−3·3	ENGLAND, S.W. ..	Scilly	50	48	49·6	—
	Aberdeen, Cove Bay	45	43	43·8	−0·6		Plymouth‡	51	49	50·0	−0·4
ENGLAND, N.E. ..	Burnmouth, Berwick	41	39	40·3	−3·1		Salcombe	50	47	47·9	−1·9
	Scarborough	45	37	41·9	−2·3		Sheephaven	48	43	46·1	−0·6
ENGLAND, E. ..	Shipwash Lightship	48	44	46·0	0·0	IRELAND, N.W. ..	Teelin	48	42	44·4	−1·1
	Margate‡	45	40	43·0	−2·2		Cleggan	50	43	47·3	+2·0
ENGLAND, S.E. ..	Eastbourne‡	46	45	45·6	−1·7	IRELAND, S.W. ..	Seafield	54	44	50·5	+2·9
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FORTY-NINTH WEEK—December 1st to December 7th 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	51	14	43·6	31·9	38·0	− 1·8	4	− 6	38	+10	5	0	1·12	−0·42	0·6	−0·1	9	− 2
Eastern.																		
1. SCOTLAND, EAST ...	56	2	43·2	27·6	35·7	− 2·7	3	− 6	53	+19	3	− 2	0·28	−0·50	0·9	−0·2	14	− 3
2. ENGLAND, N.E.	55	19	44·4	31.3	38·2	− 1·9	7	− 4	42	+16	4	0	0·46	−0·09	0·1	−1·2	14	− 5
3. ENGLAND, EAST ...	54	24	46·7	33·9	40·6	+ 0·8	13	0	34	+ 4	5	0	0·36	−0·18	0·4	−1·0	6	−13
4. MIDLAND COUNTIES ...	55	20	47·6	32·3	40·3	+ 0·7	16	+ 3	40	+ 9	4	0	0·41	−0·19	0·5	−0·8	6	−11
5. ENGLAND, S.E.	53	22	48·8	35·0	42·2	+ 0·5	31	+ 12	20	− 1	4	− 1	0·44	−0·27	1·1	−0·4	14	− 5
Western.																		
6. SCOTLAND, WEST ...	54	11	45·7	33·4	39·8	− 1·8	10	− 5	34	+15	6	+ 1	0·87	−0·48	0·2	−0·1	3	−12
7. ENGLAND, N.W.	57	8	47·6	35·0	41·6	+ 0·1	16	+ 1	31	+12	5	0	0·62	−0·28	0·2	−0·9	3	−12
8. ENGLAND, S.W.	54	22	50·2	37·8	44·3	+ 1·2	34	+ 10	12	− 3	5	0	0·63	−0·53	0·8	−0·8	10	−10
9. IRELAND, NORTH ...	57	20	50·3	38·7	44·8	+ 3·3	33	+ 18	9	−11	6	0	1·11	+0·20	0·5	−0·9	6	−13
10. IRELAND, SOUTH ...	57	20	51·5	40·5	46·2	+ 2·9	36	+ 11	4	−11	7	+ 2	1·14	+0·13	1·3	−0·3	17	− 4
11. ENGLISH CHANNEL ...	55	35	52·2	41·9	47·3	+ 0·5	38	+ 1	0	− 3	6	+ 1	0·42	−0·64	1·2	−0·7	14	− 9

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 1 Week, December 1st to December 7th, 1912.

0. SCOTLAND, NORTH ...	51	14	*	*	*	*	4	− 6	38	+10	5	0	1·12	−0·42	0·6	−0·1	9	− 2
Eastern.																		
1. SCOTLAND, EAST ...	56	2	*	*	*	*	3	− 6	53	+19	3	− 2	0·28	−0·50	0·9	−0·2	14	− 3
2. ENGLAND, N.E.	55	19	*	*	*	*	7	− 4	42	+16	4	0	0·46	−0·09	0·1	−1·2	14	− 5
3. ENGLAND, EAST ...	54	24	*	*	*	*	13	0	34	+ 4	5	0	0·36	−0·18	0·4	−1·0	6	−13
4. MIDLAND COUNTIES ...	55	20	*	*	*	*	16	+ 3	40	+ 9	4	0	0·41	−0·19	0·5	−0·8	6	−11
5. ENGLAND, S.E.	53	22	*	*	*	*	31	+ 12	20	− 1	4	− 1	0·44	−0·27	1·1	−0·4	14	− 5
Western.																		
6. SCOTLAND, WEST ...	54	11	*	*	*	*	10	− 5	34	+15	6	+ 1	0·87	−0·48	0·2	−0·1	3	−12
7. ENGLAND, N.W.	57	8	*	*	*	*	16	+ 1	31	+12	5	0	0·62	−0·28	0·2	−0·9	3	−12
8. ENGLAND, S.W.	54	22	*	*	*	*	34	+ 10	12	− 3	5	0	0·63	−0·53	0·8	−0·8	10	−10
9. IRELAND, NORTH ...	57	20	*	*	*	*	33	+ 18	9	−11	6	0	1·11	+0·20	0·5	−0·9	6	−13
10. IRELAND, SOUTH ...	57	20	*	*	*	*	36	+ 11	4	−11	7	+ 2	1·14	+0·13	1·3	−0·3	17	− 4
11. ENGLISH CHANNEL ...	55	35	*	*	*	*	38	+ 1	0	− 3	6	+ 1	0·42	−0·64	1·2	−0·7	14	− 9

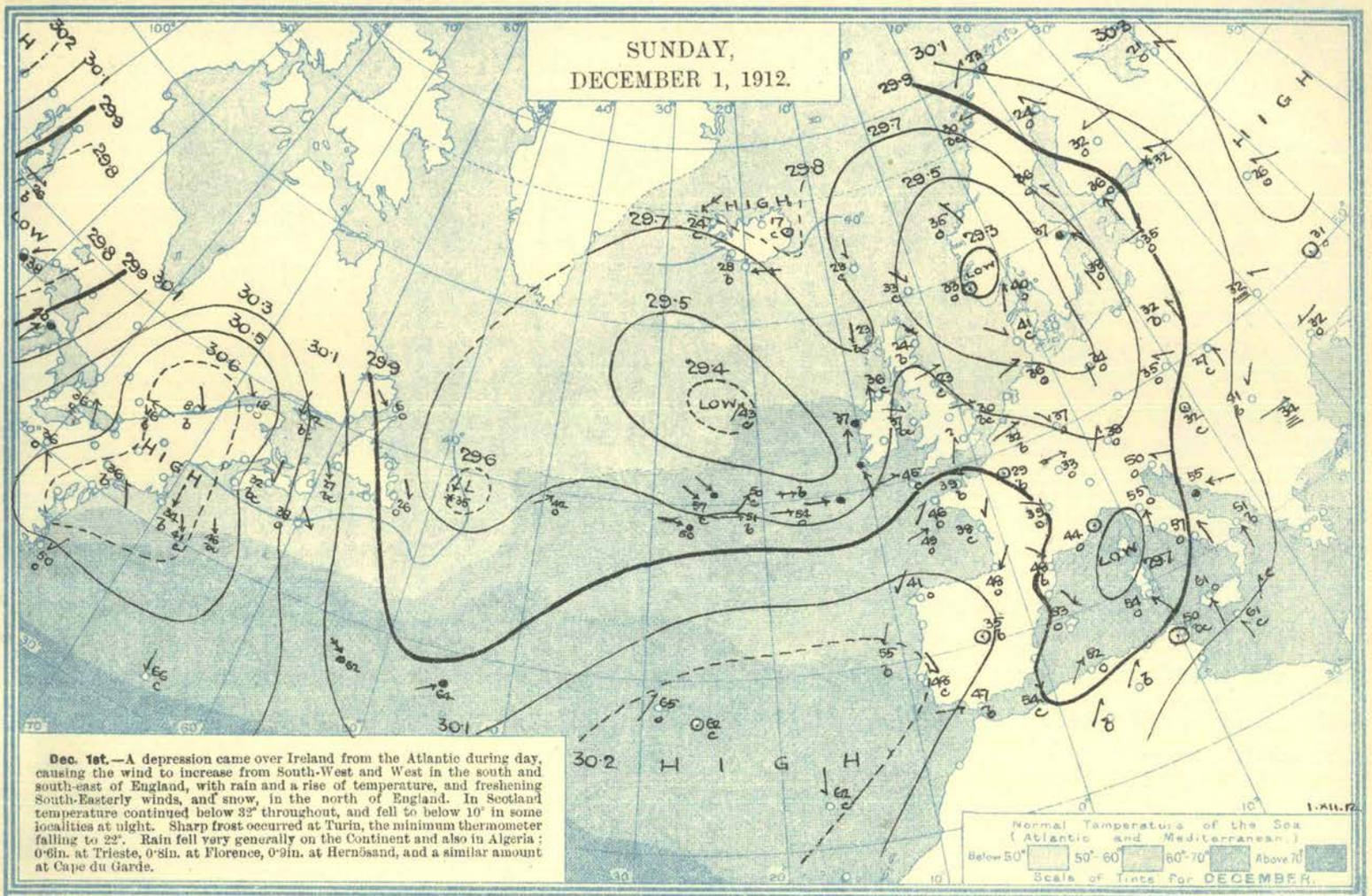
THE YEAR.—Aggregates, &c., for the Period of 49 Weeks, December 31st, 1911, to December 7th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1911	−177	569	−133	230	− 1	47·15	− 1·40	2·9	−0·3	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2140	−192	742	− 64	199	+ 8	30·41	+ 1·50	2·9	−0·9	24	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	2553	− 64	491	− 95	194	+20	29·66	+ 6·36	3·2	−0·9	26	− 8
3 ENGLAND, EAST ...	91	14	*	*	*	*	3080	+ 59	388	−263	184	+16	27·65	+ 5·33	4·0	−0·5	32	− 4
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2821	−112	527	−155	174	+ 8	31·86	+ 7·14	3·2	−0·8	26	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	3126	−160	304	−165	171	+10	29·65	+ 4·34	4·1	−0·5	34	− 4
Western.																		
6. SCOTLAND, WEST ...	83	6	*	*	*	*	2412	−137	452	− 74	204	+ 4	42·20	− 2·51	3·3	−0·6	27	− 5
7. ENGLAND, N.W.	84	6	*	*	*	*	2663	−127	385	− 82	196	+11	36·01	+ 3·34	3·5	−0·5	28	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2955	−182	242	−125	200	+16	42·78	+ 7·04	3·6	−0·9	29	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2506	−158	303	−133	199	−19	35·07	− 0·71	3·2	−0·5	26	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2916	−170	217	−117	228	+34	38·59	+ 1·50	3·3	−0·8	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3693	− 7	44	− 72	207	+10	37·86	+ 7·64	4·6	−0·8	37	− 7

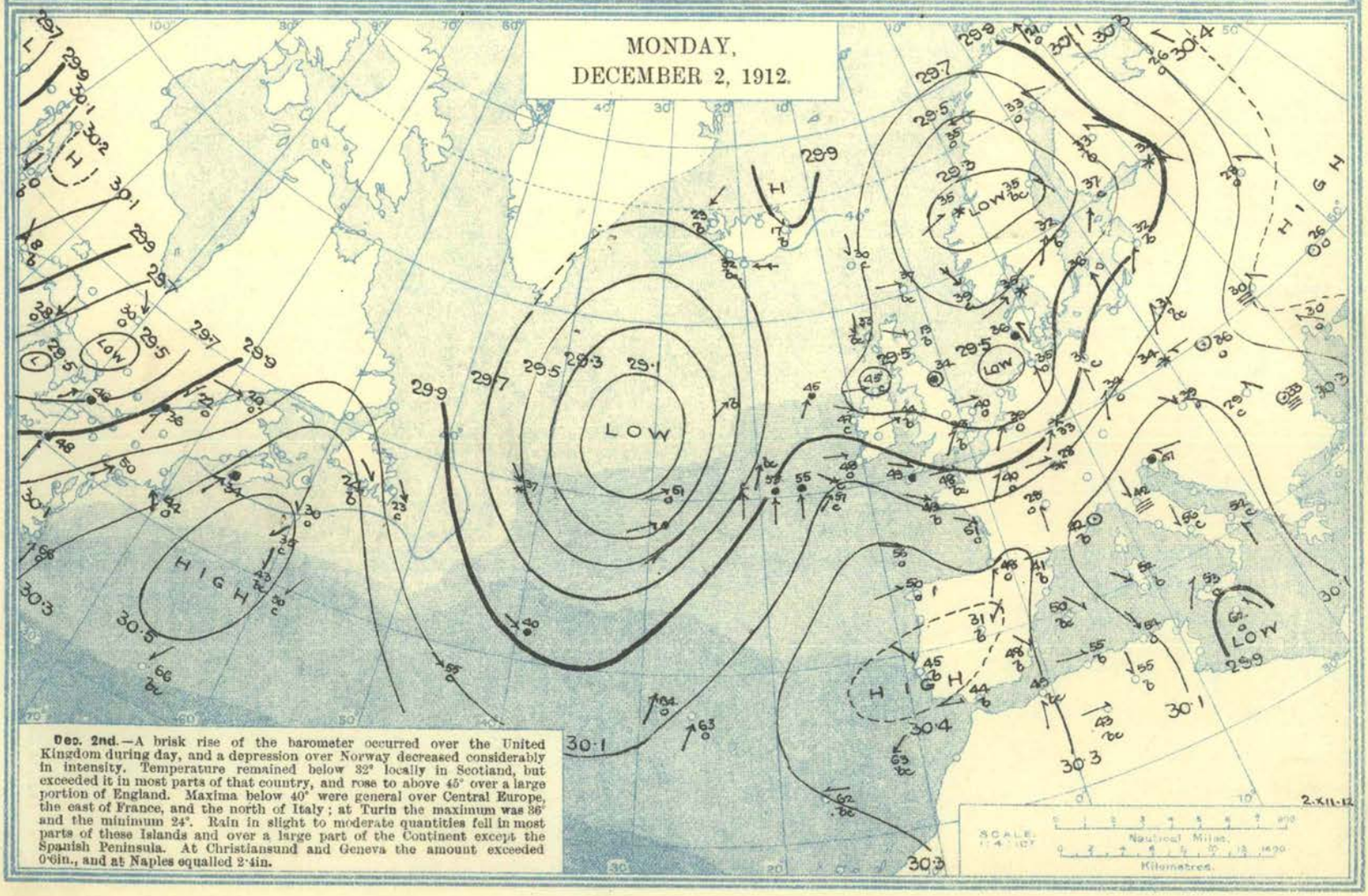
M.O., December 11, 1912.

NOTES ON TABLE IV.

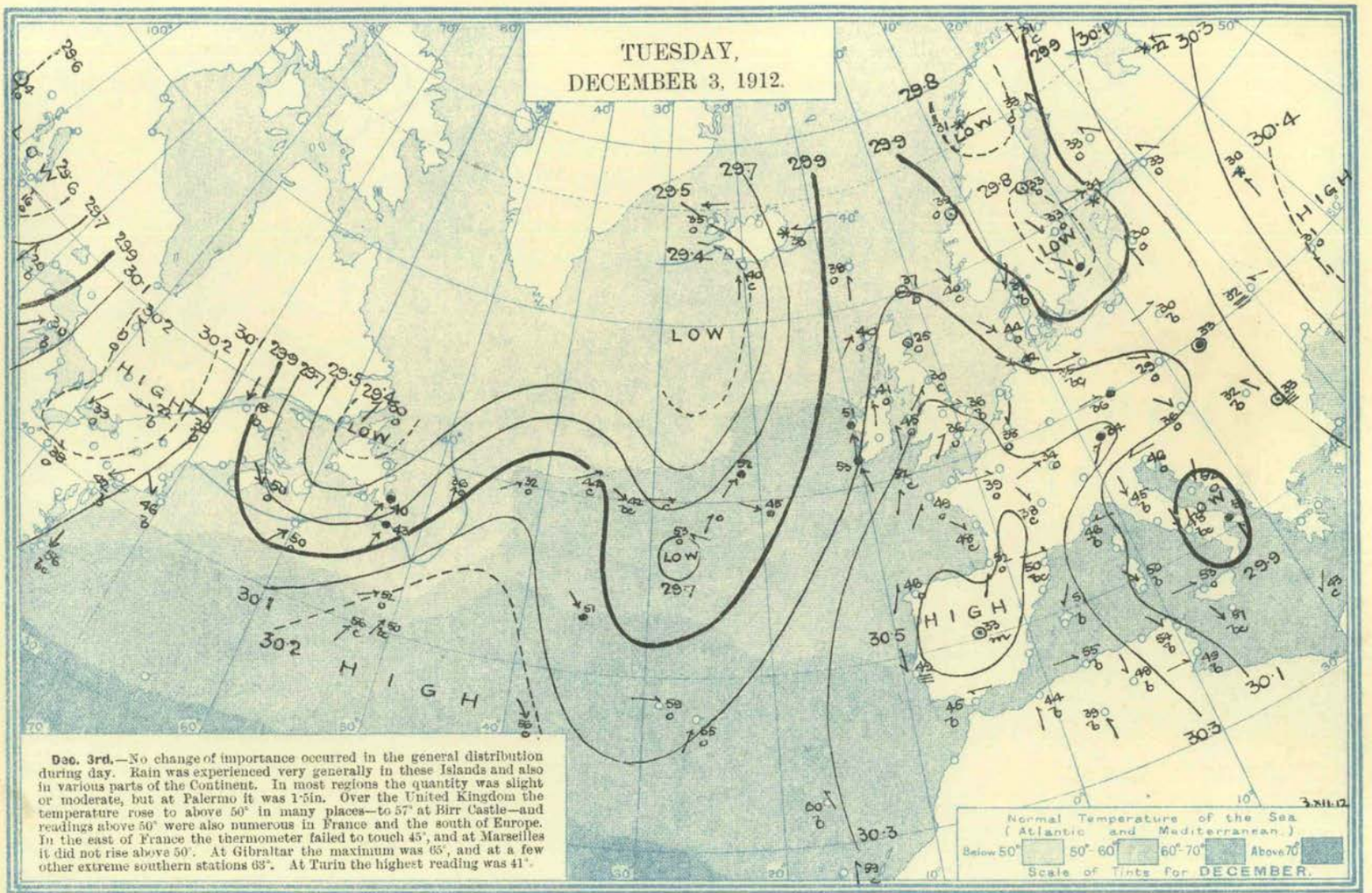
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



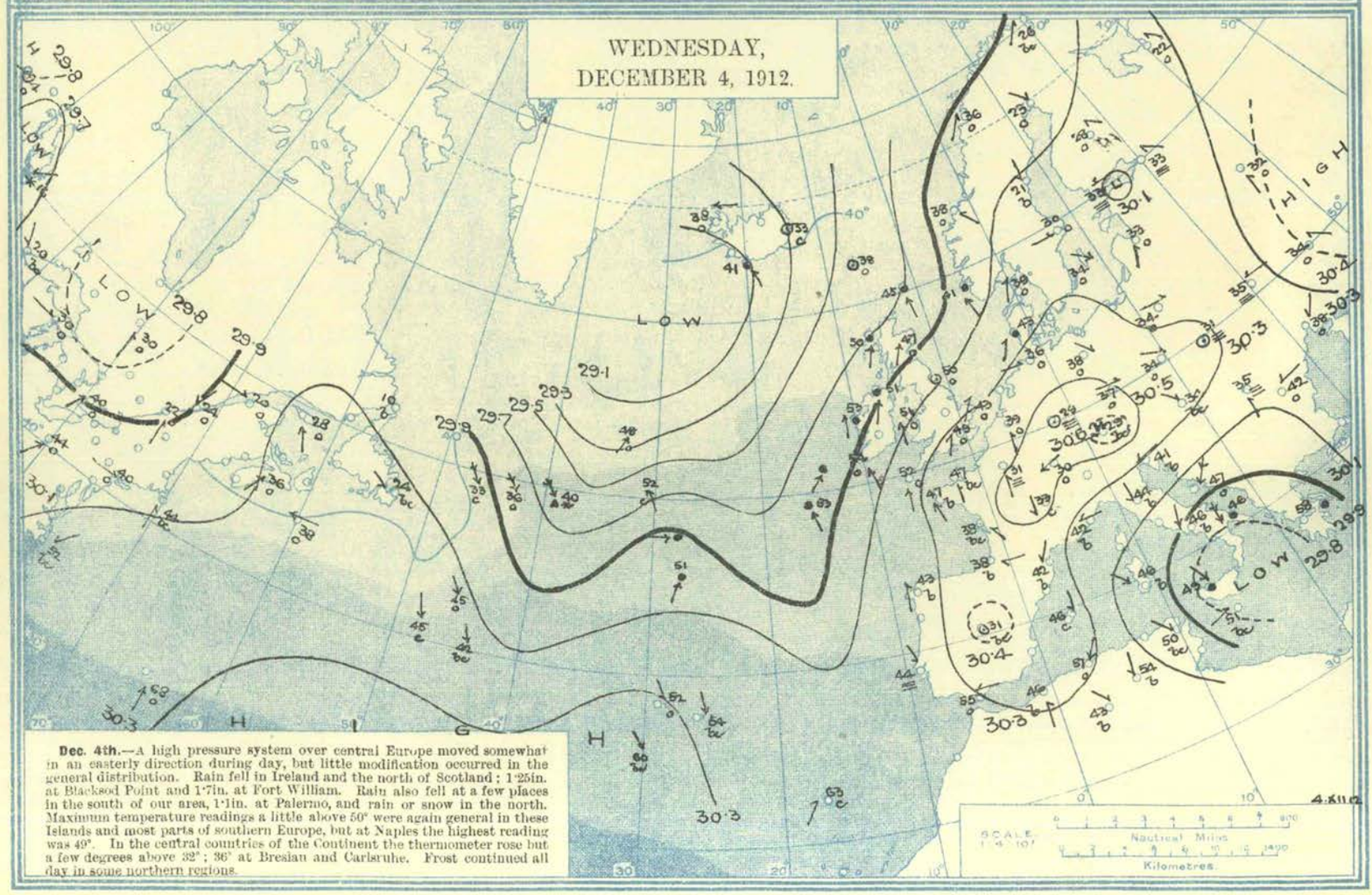
Dec. 1st.—A depression came over Ireland from the Atlantic during day, causing the wind to increase from South-West and West in the south and south-east of England, with rain and a rise of temperature, and freshening South-Easterly winds, and snow, in the north of England. In Scotland temperature continued below 32° throughout, and fell to below 10° in some localities at night. Sharp frost occurred at Turin, the minimum thermometer falling to 22°. Rain fell very generally on the Continent and also in Algeria: 0·6in. at Trieste, 0·8in. at Florence, 0·9in. at Hernösand, and a similar amount at Cape du Garde.



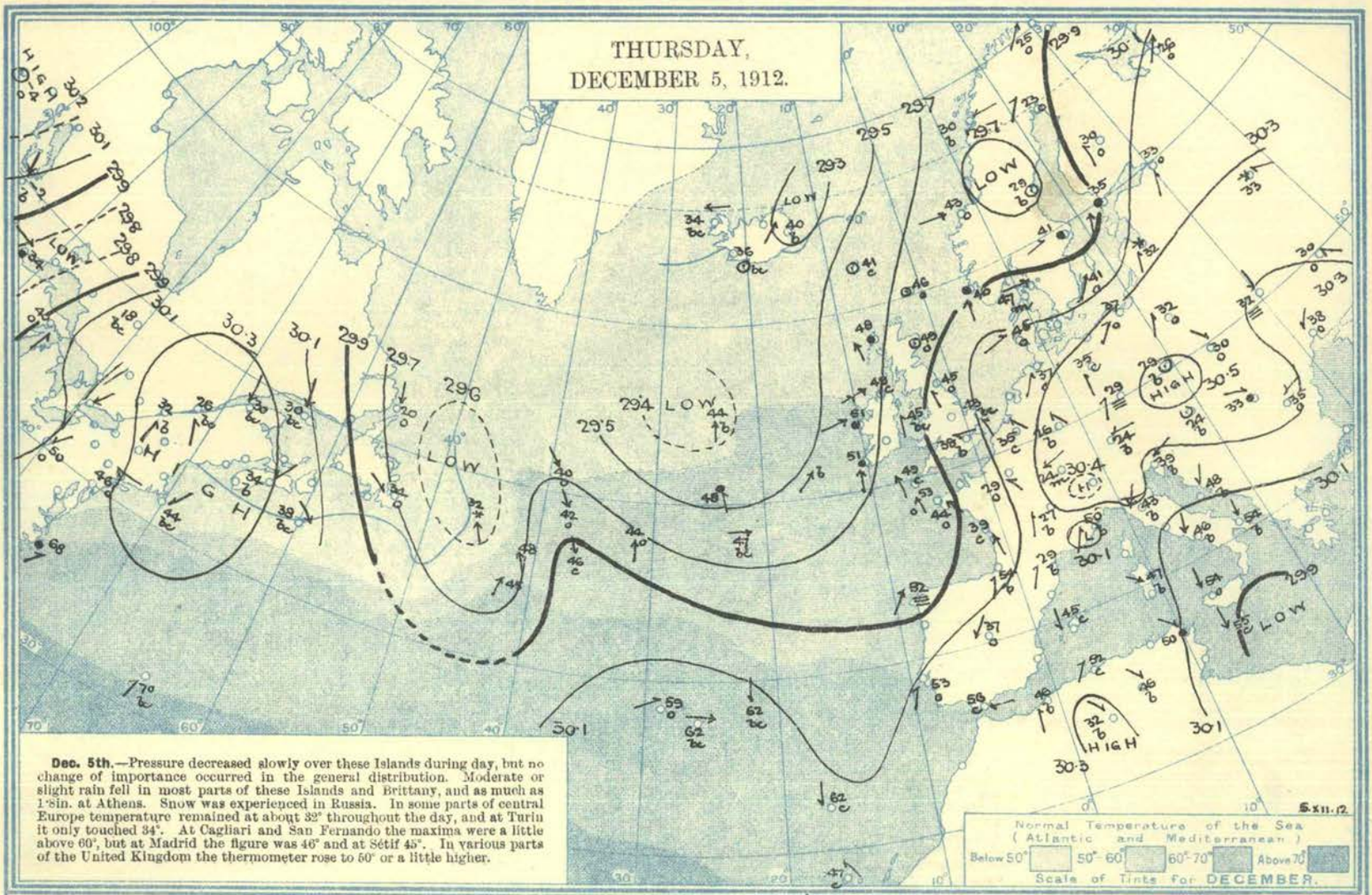
Dec. 2nd.—A brisk rise of the barometer occurred over the United Kingdom during day, and a depression over Norway decreased considerably in intensity. Temperature remained below 32° locally in Scotland, but exceeded it in most parts of that country, and rose to above 45° over a large portion of England. Maxima below 40° were general over Central Europe, the east of France, and the north of Italy; at Turin the maximum was 36° and the minimum 24°. Rain in slight to moderate quantities fell in most parts of these Islands and over a large part of the Continent except the Spanish Peninsula. At Christiansund and Geneva the amount exceeded 0·6in., and at Naples equalled 2·4in.



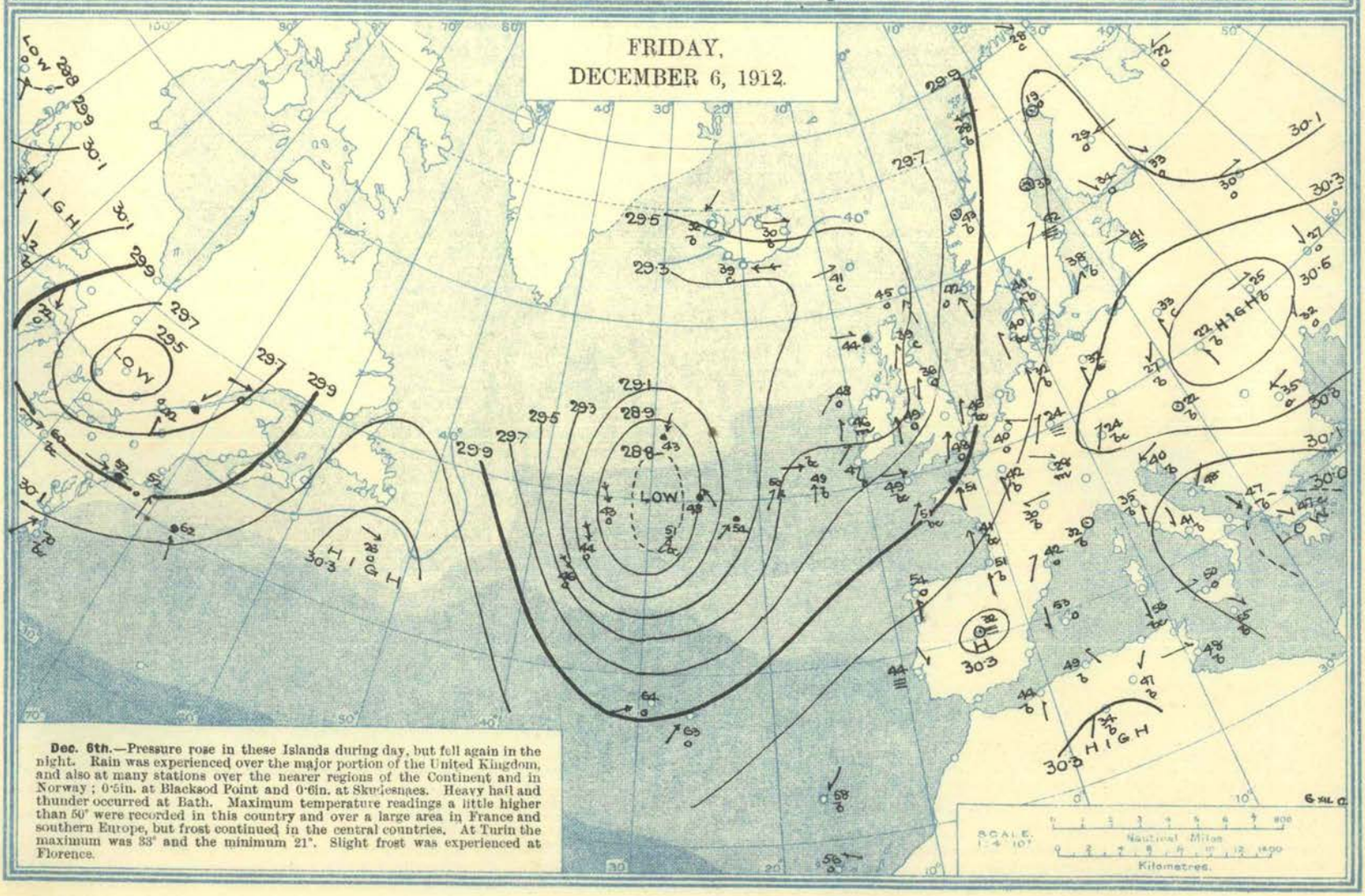
Dec. 3rd.—No change of importance occurred in the general distribution during day. Rain was experienced very generally in these Islands and also in various parts of the Continent. In most regions the quantity was slight or moderate, but at Palermo it was 1·5in. Over the United Kingdom the temperature rose to above 50° in many places—to 57° at Birr Castle—and readings above 50° were also numerous in France and the south of Europe. In the east of France the thermometer failed to touch 45°, and at Marseilles it did not rise above 50°. At Gibraltar the maximum was 65°, and at a few other extreme southern stations 68°. At Turin the highest reading was 41°.



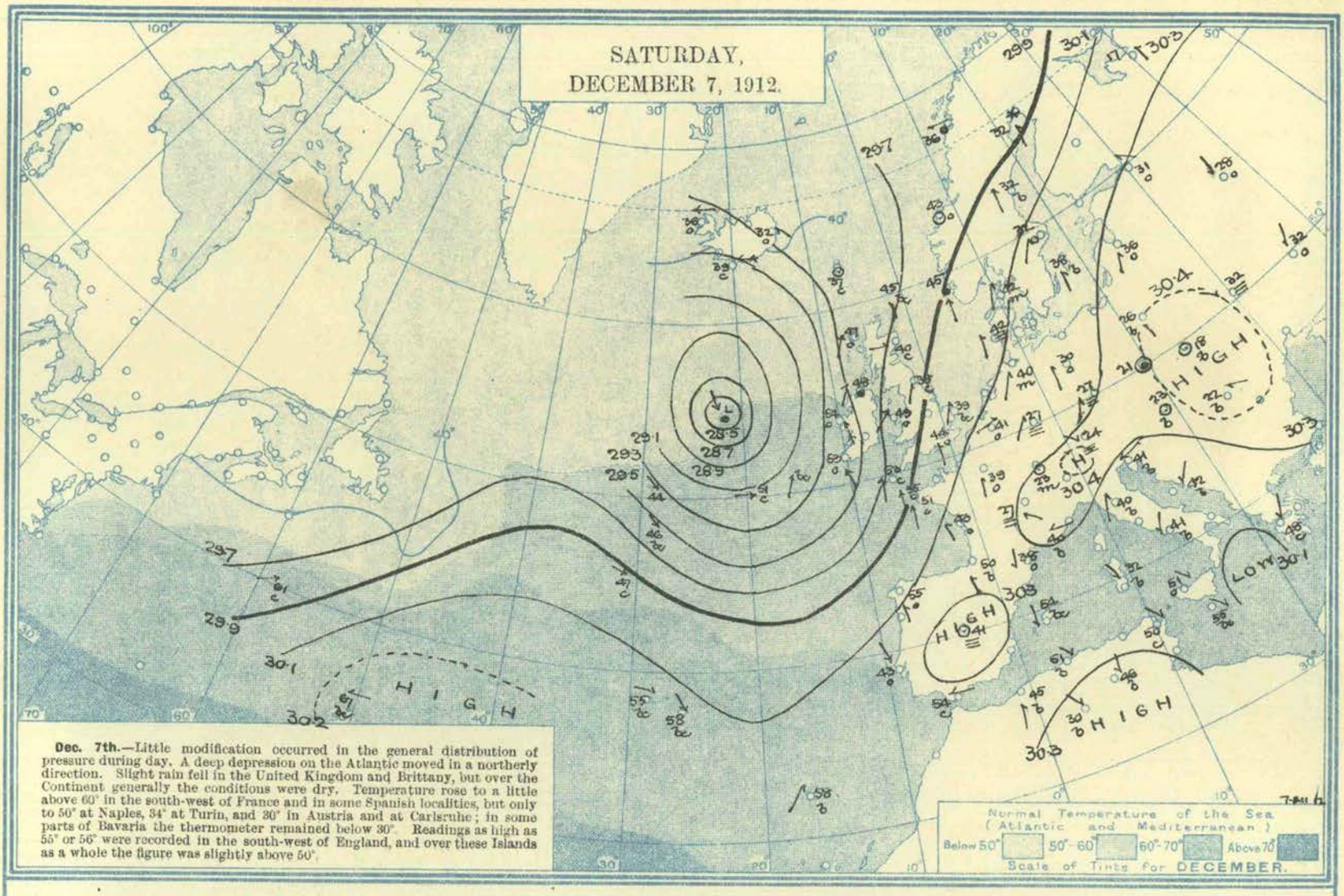
Dec. 4th.—A high pressure system over central Europe moved somewhat in an easterly direction during day, but little modification occurred in the general distribution. Rain fell in Ireland and the north of Scotland; 1·25in. at Blacksod Point and 1·7in. at Fort William. Rain also fell at a few places in the south of our area, 1·1in. at Palermo, and rain or snow in the north. Maximum temperature readings a little above 50° were again general in these Islands and most parts of southern Europe, but at Naples the highest reading was 49°. In the central countries of the Continent the thermometer rose but a few degrees above 32°; 36° at Breslau and Carlsruhe. Frost continued all day in some northern regions.



Dec. 5th.—Pressure decreased slowly over these Islands during day, but no change of importance occurred in the general distribution. Moderate or slight rain fell in most parts of these Islands and Brittany, and as much as 1·8in. at Athens. Snow was experienced in Russia. In some parts of central Europe temperature remained at about 32° throughout the day, and at Turin it only touched 34°. At Cagliari and San Fernando the maxima were a little above 60°, but at Madrid the figure was 46° and at Sétif 45°. In various parts of the United Kingdom the thermometer rose to 50° or a little higher.

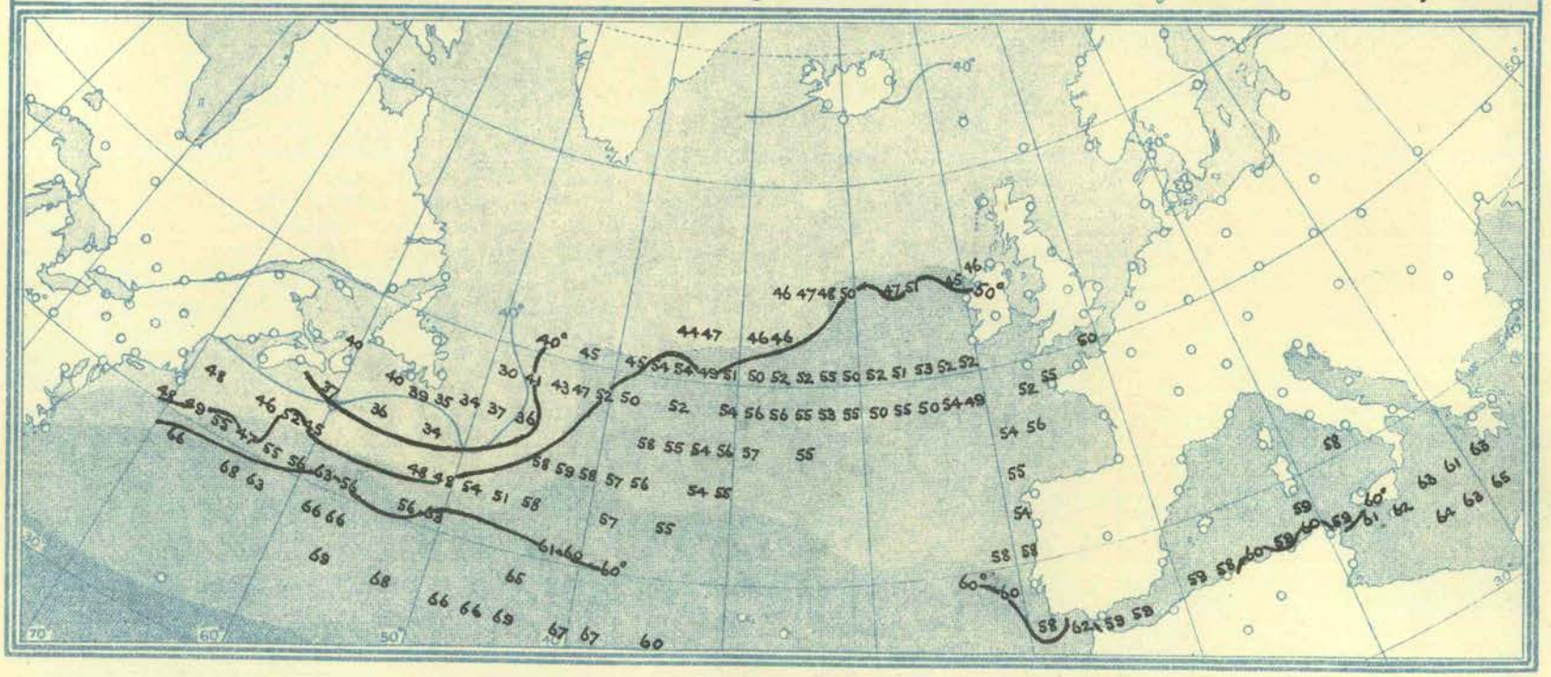


Dec. 6th.—Pressure rose in these Islands during day, but fell again in the night. Rain was experienced over the major portion of the United Kingdom, and also at many stations over the nearer regions of the Continent and in Norway; 0·5in. at Blacksod Point and 0·6in. at Skudesnaes. Heavy hail and thunder occurred at Bath. Maximum temperature readings a little higher than 50° were recorded in this country and over a large area in France and southern Europe, but frost continued in the central countries. At Turin the maximum was 33° and the minimum 21°. Slight frost was experienced at Florence.



Dec. 7th.—Little modification occurred in the general distribution of pressure during day. A deep depression on the Atlantic moved in a northerly direction. Slight rain fell in the United Kingdom and Brittany, but over the Continent generally the conditions were dry. Temperature rose to a little above 60° in the south-west of France and in some Spanish localities, but only to 50° at Naples, 34° at Turin, and 30° in Austria and at Carlsruhe; in some parts of Bavaria the thermometer remained below 30°. Readings as high as 55° or 56° were recorded in the south-west of England, and over these Islands as a whole the figure was slightly above 50°.

SURFACE TEMPERATURE of the SEA during the week ended Saturday, 7TH DECEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⤇ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 50. FIFTIETH WEEK, SUNDAY, DECEMBER 8TH, TO SATURDAY, DECEMBER 14TH, 1912.

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I.—General Remarks.

Weather. Very unsettled conditions were experienced. Rain occurred daily in Ireland and the west and north of Scotland, and on most days in the other parts of the Kingdom, while the few fair intervals were very brief. Lightning was seen at Markree Castle on the evenings of the 12th and 14th.

Temperature was much above the average, the divergence in the Midland Counties being rather more than 7°, and in England E. slightly more than 8°. The highest of the maxima occurred at most stations late in the week, and ranged from 60° in England N.W., 59° in the Midland Counties, and 58° in several other districts, to 55° in Scotland N., England S.W., and the English Channel. The lowest of the minima, which were recorded on rather irregular dates, varied from 30° in Ireland S. and 31° or 32° in several other parts of the Kingdom, to 37° in England S.E., and to 43° in the English Channel. The lowest grass readings were 22° at West Linton, 24° at Crathes and Rauceby, and 25° at Newton Rigg. The temperature of the soil, both at 1 foot and 4 feet, was above the normal over the greater part of the Kingdom.

Mean Temperature of the Sea ranged from 51°·4 at Seafield, and 51° at Scilly and Newquay to 42°·7 at Pennan Bay, and to 40°·9 at Burnmouth. On almost all parts of the coast the water was warmer than during the corresponding week of last year, and at most stations its temperature exceeded the normal.

Rainfall was more than the average excepting in England N.E., and in most of the western districts the excess was large. As much as 1·1 in. fell at Killarney on the 8th, and 1·0 in. at Buxton on the 11th and Newton Rigg on the 13th, while at Bettws-y-Coed a total of 5·51 in. fell on the four days 11th–14th (on the 13th 2·68 in., and on the 14th 1·37 in.). More than an inch occurred at Fort Augustus and Fort William on the 12th and 13th, the total falls for the two days being respectively 2·59 in. and 2·9 in.

Bright Sunshine was very deficient. In all districts except the English Channel the daily mean was less than an hour, in several less than 0·5 hour, and in Scotland N. only 0·1 hour. The percentage of the possible duration ranged from 12 in Ireland and the English Channel to 5 in Scotland W. and England N.E., and to 2 in Scotland N.

Barometer and Wind. Some small secondary depressions passed directly across these Islands, but the main systems, which were large and deep, moved on a course far to the north-westward and northward. The main wind current over the United Kingdom was consequently between South and South-West, and as the gradient was often steep, strong winds and gales were of frequent occurrence. On some parts of the north-west coasts gales were experienced almost daily, on Wednesday they blew over a much larger area, and on Friday and Saturday they were felt on almost all coasts. At the end of the period, when a large depression was travelling from Iceland to Scandinavia, the wind over these Islands had become more Westerly.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 199.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual
	Rainfall ...	Very heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Heavy	Very heavy	Heavy	Heavy	Heavy	Moderate
	Sunshine ...	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 2 weeks from Dec. 1st, 1912.	Warmth ...	1 * 1	1 * 1	1 * 1	1 * 0	1 * 0	1 * 0	1 * 1	1 * 0	1 * 0	2 * 0	2 * 0	1 * 0
	Rainfall ...	1 * 0	1 * 1	0 * 1	0 * 0	0 * 0	0 * 0	1 * 1	1 * 1	1 * 1	1 * 0	1 * 0	0 * 1
	Sunshine ...	0 * 1	0 * 1	0 * 2	0 * 2	0 * 2	0 * 1	0 * 2	0 * 1	0 * 2	0 * 1	0 * 1	0 * 2

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(27678—24.) Wt. 173—814. 450. 12/12. D & S. Gp. 30. Sch. 13.

II.—DATA from which the SUMMARY in Table IV. has been calculated.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*47*	*8, 11, 13*	*35*	*13th*	*45·8*	*37·7*	*41·9*	—	*11*	*19*	•	•												
a, Islands .. *a* Lerwick	48	8, 11, 13	36	13th	46·0	39·4	42·8	+ 2·1	17	7	•	•	40·5	•	•	•	7	*2·03*	—	*0·1*	—	2	—	*Baltasound.*
a Stornoway	53	13th	?35	11th	48·4	39·4	44·1	+ 3·8	26	7	•	•	•	•	•	•	7	3·01	—	0·0	- 0·8	0	-13	Deerness.
a Castlebay, Barra Isd. .	*54*	*13th*	*41*	*10, 11*	*50·7*	*43·9*	*47·4*	+ *4·5*	*38*	*0*	•	•	•	•	•	•	7	3·29	+ 0·88	0·3	- 0·6	5	- 9	Stornoway.
																	7	*1·04*	—	*0·1*	—	2	—	*Castlebay.*
a Wick	52	13th	34	12, 13	46·9	37·6	42·4	+ 2·8	21	12	•	•	•	•	•	•	7	0·80	+ 0·13	•	•	•	•	•
b, Main- *p* Strathpeffer ..	54	11th	33	8, 9	48·6	35·9	42·5	+ 4·8	29	17	•	•	•	•	•	•	6	1·57	+ 0·81	0·2	- 0·8	3	-12	Strathpeffer.
land. *p* Glencarron ..																	—	—	—	•	•	•	•	•
p Fort Augustus..	54	14th	34	12th	48·9	38·0	43·7	+ 4·7	29	11	•	•	•	•	•	•	7	4·07	+ 2·82	0·0	- 0·3	0	- 4	Fort Augustus.
p Fort William ..	55	14th	36	12th	50·1	39·3	44·9	+ 4·3	32	8	•	•	•	•	•	•	7	5·69	+ 3·47	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle.. S	57	11th	35	9th	49·4	37·7	43·8	+ 4·7	31	12	3	24	38·3	-0·5	40·1	-1·3	—	—	—	0·4	—	6	—	Crathes S.
a Nairn	56	11th	34	13th	49·9	37·0	43·7	+ 5·4	33	14	•	•	•	•	•	•	3	0·65	+ 0·05	*0·6*	—	*9*	—	*Gordon Castle.*
a Aberdeen	58	13th	35	12, 13	48·9	38·4	43·9	+ 4·8	28	10	•	•	•	•	•	•	7	1·18	+ 0·68	0·4	—	6	—	Nairn.
a Balmoral	53	10, 13	31	10th	48·3	34·1	41·5	+ 6·2	18	34	•	•	•	•	41·6	-1·1	4	0·24	- 0·42	0·5	- 0·8	8	-12	Aberdeen.
p Crieff	55	14th	34	10th	49·9	37·3	43·9	+ 5·7	33	13	•	•	•	•	•	•	4	1·06	+ 0·31	•	•	•	•	Balmoral.
a Leith	57	11, 13	39	13th	52·6	41·3	47·2	+ 7·1	39	2	•	•	•	•	•	•	7	2·78	+ 1·82	0·5	—	8	—	Balruddery.
p West Linton .. S	53	13, 14	31	10th	47·6	36·3	42·2	+ 4·8	25	16	3	22	•	•	•	•	7	0·74	+ 0·31	•	•	•	•	•
p Marchmont .. S	54	14th	33	12th	49·7	36·9	43·6	+ 5·9	33	14	2	29	38·6	+0·4	•	•	7	1·89	—	*0·1*	—	*1*	—	*West Linton.*
																	6	0·77	+ 0·18	0·5	- 0·9	7	-10	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	57	13th	36	8th	51·7	38·0	45·1	+ 5·5	39	11	1	29	39·5	+0·9	41·7	+0·1	7	0·30	- 0·35	0·0	—	0	—	Cockle Park.
a Shields	58	13, 14	36	8, 11	51·7	37·9	45·1	+ 5·0	39	11	•	•	•	•	•	•	5	0·10	- 0·34	•	•	•	•	*Newcastle.*
p Durham	55	14th	34	11th	51·1	37·3	44·5	+ 6·2	37	13	2	27	•	•	•	•	4	0·11	- 0·32	0·6	- 0·8	9	-11	Durham.
a, North .. *p* Rounton	56	14th	32	10th	50·9	38·9	45·1	+ 6·8	35	9	2	27	39·7	•	•	•	6	0·21	- 0·21	•	•	•	•	Rounton.
a West Witton	*53*	*11, 13*	*33*	*10th*	*50·3*	*38·9*	*44·8*	—	*33*	*9*	1	30	40·9	•	42·7	•	*6*	*1·47*	—	•	•	•	•	*West Witton.*
p Scarborough	57	14th	38	11, 12	49·2	41·9	45·7	+ 5·5	26	0	•	•	•	•	43·8†	•	4	0·35	- 0·15	0·2	—	3	—	Scarborough.
p York	57	14th	34	10, 11	51·6	40·1	46·1	+ 6·6	37	5	•	•	41·4	+0·1	44·3	-0·5	4	0·53	+ 0·10	0·0	- 0·8	0	-12	York.
a Spurn Head	56	14th	37	11th	49·3	39·9	44·8	+ 4·2	28	6	2	29	41·7	+1·4	45·0	-0·2	4	0·94	+ 0·53	*0·1*	—	*1*	—	*Hull.*
b South .. *a* Lincoln	57	14th	35	11th	51·9	39·7	46·0	+ 7·0	38	6	•	•	40·7	+0·2	43·3	-1·6	4	0·48	+ 0·05	•	•	•	•	Lincoln.
a Fulbeck	57	14th	33	11th	51·3	39·9	45·8	+ 7·5	35	6	2	24	42·7	+1·3	45·2	-0·7	6	0·79	+ 0·36	0·7	—	10	—	Rauceby.
											•	•	•	•	•	•	—	—	—	0·6	—	8	—	Skegness.
3. ENGLAND, E.											0	33	44·2	+2·4	45·9	+0·2	—	—	—	*0·8*	—	*11*	—	*Lowestoft.*
p Cromer	57	14th	35	8th	50·6	40·3	45·7	+ 7·2	33	5	•	•	•	•	•	•	5	0·56	—	0·6	•	8	—	Cromer.
p Little Massingham ..	*56*	*14th*	*35*	*11th*	*51·4*	*41·7*	*46·7*	+ *8·0*	*34*	*1*	0	33	•	•	•	•	*3*	*0·82*	—	*0·4*	•	*5*	•	*Little Massingham*
a, North .. *a* Yarmouth	58	14th	38	8th	51·3	41·3	46·3	+ 6·6	34	2	•	•	43·1	+1·8	46·6	+0·7	5	0·67	+ 0·17	0·6	—	8	—	Yarmouth.
a Norwich	57	14th	39	13th	51·0	41·9	46·6	+ 7·4	33	0	0	33	43·1	•	•	•	6	0·66	—	*0·6*	—	*8*	—	*Norwich.*
p Geldeston	57	14th	39	12, 13	51·4	43·0	47·4	+ 7·7	38	0	•	•	•	•	•	•	5	0·56	+ 0·08	0·5	- 1·1	7	-14	Geldeston.
p Cambridge	57	14th	38	10, 12, 13	52·6	42·3	47·7	+ 8·5	40	0	0	31	43·6	+2·0	46·1	+0·3	6	0·30	- 0·07	0·8	- 0·5	11	- 7	Cambridge.
a Felixstowe	*57*	*14th*	*39*	*13th*	*51·4*	*42·7*	*47·2*	+ *6·6*	*36*	*0*	•	•	•	•	•	•	*6*	*0·41*	—	*0·5*	—	*7*	—	*Felixstowe.*
b, South .. *a* Clacton-on-Sea ..	54	14th	39	13th	49·3	42·4	46·0	+ 5·7	28	0	0	34	44·4	+0·4	46·8	-1·0	5	0·45	—	0·4	—	5	—	Clacton.
a Rothamsted	57	14th	38	12, 13	51·7	42·9	47·5	+ 8·3	39	0	•	•	•	•	•	•	6	0·54	- 0·01	0·7	- 0·7	9	- 9	Rothamsted.
a Shoeburyness	*56*	*14th*	*39*	*13th*	*51·1*	*42·9*	*47·2*	+ *6·3*	*36*	*0*	2	27	45·3	+2·1	•	•	*4*	*0·34*	*0·00*	*0·5*	—	*7*	—	*Southend.*
p Tottenham	56	14th	41	12, 13	53·1	45·6	49·5	+ 9·5	53	0	0	36	•	•	47·1	0·0	4	0·52	—	0·1	—	1	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	55	14th	35	10, 11	50·6	39·0	45·0	+ 6·6	34	8	1	30	40·8	+0·8	44·0	+0·2	—	—	—	*0·5*	—	7	—	*Huddersfield.*
a Bawtry	59	14th	31	11th	52·0	38·0	45·3	+ 6·4	40	11	2	26	41·5	+0·8	42·8	+0·3	4	0·73	+ 0·15	0·4	—	6	—	Harrogate.
p Buxton	*51*	*14th*	*32*	*11th*	*48·9*	*38·0*	*43·7*	+ *6·8*	*29*	*11*	4	26	41·9	•	43·7	•	4	0·64	+ 0·21	0·6	- 0·5	8	- 6	Worksop.
a East .. *a* Nottingham	59	14th	33	11th	52·0	39·0	45·8	+ 6·5	39	8	4	27	41·1	+1·3	44·8	+0·1	*6*	*2·04*	*0·86*	*0·3*	—	*4*	—	*Buxton.*
p Birmingham, Edgbsn.	57	14th	36	12th	50·7	41·0	46·0	+ 6·8	32	3	2	30	42·4	+2·2	42·9	-0·4	4	1·12	+ 0·84	0·7	—	10	—	Nottingham.
a Raunds	57	14th	33	11th	52·0	40·7	46·6	+ 7·7	38	4	1	28	44·5	+2·2	48·3	0·0	3	0·83	+ 0·30	0·6	—	8	—	Birmingham.
a Oxford	56	14th	39	12, 13	51·7	42·4	47·2	+ 7·2	36	0	1	29	43·1	•	47·2	•	3	0·41	—	•	•	•	•	Raunds.
											0	32	•	•	•	•	4	0·60	+ 0·13	1·0	- 0·4	13	- 5	Oxford.
a Cheadle	55	14th	33	10th	49·4	37·4	43·6	+ 5·4	31	13	1	30	41·8	+1·3	44·7	0·0	—	—	—	0·8	—	11	—	Sheffield.
p Shrewsbury	57	14th	34	11th	53·3	40·4	47·1	+ 5·8	42	4	6	25	•	•	•	•	5	0·73	+ 0·08	•	•	•	•	Cheadle.
b, West .. *a* Hereford	58	14th	34	11th	52·1	40·4	46·5	+ 6·8	38	4	2	29	•	•	•	•	5	0·56	—	•	•	•	•	Shrewsbury.
a Cirencester	58	14th	34	12, 13	50·1	39·9	45·2	+ 6·4	31	6	0	31	•	•	•	•	5	0·80	+ 0·27	•	•	•	•	Hereford.
a Bath	57	14th	36	12th	54·3	43·3	49·0	+ 8·0	49	0	0	32	43·9	•	45·2	•	7	1·05	+ 0·45	0·6	- 0·7	8	- 9	Cirencester.
											•	•	44·9	+1·1	47·8	+0·1	7	0·86	+ 0·18	0·7	—	9	—	Bath.
5. ENGLAND, S.E.																								
p Kew	56	14th	40	13th	51·9	45·4	48·8	+ 8·3	48	0	0	35	44·8	+1·4	47·8	+2·2	—	—	—	•	•	•	•	Canterbury
a Marlborough	54	14th	37	12th	50·4	42·4	46·6	+ 7·6	32	0	2	28	44·8	+2·3	46·7	+0·2	5	0·60	+ 0·15	0·3	- 0·9	4	-12	Kew.
a Margate	56	14th	39	13th	51·3	45·0	48·3	+ 6·9	44	0	1	30	•	•	46·4	•	7	1·09	+ 0·42	0·7	- 0·4	9	- 5	Marlborough.
a Wisley, Surrey ..	56	14th	40	12, 13	51·9	44·3	48·3	+ 7·8	44	0	•	•	45·6	+2·1	48·4	+0·7	5	0·35	- 0·12	0·7	- 0·8	9	-11	Margate.
a Swarraton	55	14th	37	13th	51·0	43·4	47·4	+ 7·9	38	0	0	33	45·2	+2·6	46·0	-0·2	5	0·84	—	0·5	—	7	—	Wisley
a Tunbridge Wells ..	53	14th	37	13th	50·3	42·0	46·3	+ 6·6	30	0	0	31	46·4	+2·8	47·9	+0·3	6	1·16	+ 0·46	0·7	—	9	—	Worthing.
a Dungeness	62	11, 13, 14	41	13th	50·9	45·6	48·4	+ 6·3	45	0	0	31	44·3	+2·3	•	•	7	0·94	+ 0·27	0·4	- 1·0	5	-13	Tunbridge Wells.
p Hastings..	53	14th	40	12th	50·7	44·6	47·8	+ 5·8	41	0	•	•	•	•	•	•	3	0·41	- 0·09	0·4	—	5	—	Littlestone.
p Southampton	55	14th	40	12th	52·1	45·4	48·9	+ 6·8	48	0	0	33	45·1	•	47·0	•	7	0·78	+ 0·13	*0·6*	- *1·2*	*8*	- *16*	*Hastings.*
a Ventnor	53	14th	44	12, 13	51·6†	46·7	49·3	+ 5·0	51	0	0	32	•	•	•	•	6	1·04	+ 0·37	0·7	- 0·9	9	-11	Southampton
											•	•	•	•	•	•	6	0·51	- 0·16	0·6	- 1·0	8	-13	Ventnor.
											0	34	47·0	+2·5	48·1	-0·1	—	—	—	*0·6*	—	*8*	—	*Portsmouth.*
LONDON.											•	•	46·8	•	48·4	•	—	—	—	0·3	- 1·4	4	-18	Eastbourne.
a Westminster	*57*	*14th*	*42*	*13th*	*53·1*	*46·3*	*49·8*	+ *5·2*	*55*	*0*	•	•	46·4	•	46·3	•	—	—	—	*0·7*	—	*9*	—	*Bournemouth.*
a Greenwich	*57*	*14th*	*40*	*13th*	*52·4*	*44·9*	*48·8*	+ *5·6*	*48*	*0*	0	38	•	•	46·6	•	—	—	—	*0·5*	- *1·1*	*6*	- *15*	*Brighton.*
a Hampstead	*53*	*13, 14*	*39*	*13th*	*50·1*	*44·0*	*47·2*	—	*36*	*0*	0	35	•	•	•	•	*5*	*0·48*	+ *0·03*	*0·0*	- *0·4*	*0*	- *6*	*Westminster.*
a Camden Square ..	*57*	*14th*	*40*	*13th*	*52·9*	*45·0*	*49·1*	—	*50*	*0*	0	33	•	•	•	•	*6*	*0·62*	+ *0·18*	*0·2*	- *0·9*	*3*	- *12*	*Greenwich.*
											0	34	•	•	•	•	*5*	*0·50*	—	*0·2*	—	*3*	—	*Hampstead.*
											•	•	•	•	•	•	*4*	*0·56*	—	*0·2*	—	*3*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	53	13th	38	10, 11, 12	49·3	41·3	45·5	+ 5·0	27	2	•	•	•	•	•	•	7	2·42	+ 1·17	•	•	•	•	•
p Glasgow .. S	56	14th	38	12th	49·9	41·4	45·8	+ 5·7	29	2	0	32	•	•	•	•	7	2·10	+ 1·20	0·0	- 0·5	0	- 7	Glasgow.
p Rothesay .. S	54	13, 14	39	10th	49·9	42·0	46·1	+ 5·4	29	0	•	•	•	•	44·0	0·0	7	2·22	+ 1·12	•	•	•	•	•
a Kilmarnock .. S	54	11, 13	39	9-13	50·7	40·9	46·0	+ 5·3	33	3	•	•	•	•	•	•	7	1·82	—	*0·0*	—	*0*	—	*Kilmarnock.*
a Colmonell ..	55	13th	37	11th	51·0	40·7	46·1	+ 4·7	34	4	0	32	•	•	•	•	7	1·47	+ 0·31	•	•	•	•	•
p Dumfries ..	55	14th	35	10th	51·3	41·4	46·6	+ 7·2	35	2	2	27	41·7	•	43·0	•	7	1·50	+ 0·60	*0·6*	—	*9*	—	*Dumfries.*
p Cally, Gatehouse ..	54	14th	32	10th	50·6	38·9	45·0	+ 5·3	34	9	•	•	•	•	•	•	7	1·75	+ 0·54	•	•	•	•	•
b I. OF MAN																								
p Douglas	54	14th	37	10th	50·4	42·3	46·5	+ 3·9	32	0	0	32	•	•	•	•	7	1·05	- 0·04	0·7	- 0·7	10	- 9	Douglas.
7. *a*, ENGLAND, N.W.											2	26	40·7	+0·7	43·6	-0·2	—	—	—	*0·0*	—	*0*	—	*Burnley.*
p Aspatria	51	13th	37	10th	49·4	42·3	46·0	+ 6·5	28	0	1	29	•	•	•	•	—	—	—	1·0	—	14	—	Hoylake.
p Newton Rigg	60	14th	32	10th	51·6	39·0	45·6	+ 7·6	38	8	0	31	43·5	•	45·6	•	7	1·88	- 0·02	0·4	—	6	—	Aspatria.
p Stonyhurst	55	14th	35	10th	50·6	40·6	45·8	+ 6·2	32	4	1	25	42·3	+1·8	43·3	+0·2	6	2·00	+ 1·14	0·5	- 0·6	7	- 8	Newton Rigg.
p Blackpool	54	11th	36	10, 11	50·0	41·4	45·9	+ 5·4	30	2	2	29	•	•	•	•	6	1·87	+ 0·87	0·1	- 0·8	1	-11	Stonyhurst.
p Manchester (Whit. Pk.)	*55*	*11th*	*37*	*10, 11*	*49·6*	*41·3*	*45·6*	—	*28*	*2*	2	26	42·7	•	46·3	•	6	0·78	+ 0·08	0·5	- 0·4	7	- 6	Blackpool.
a Liverpool (Bidston) ..	55	11, 13, 14	37	11th	52·4	40·1	46·5	+ 5·4	39	5	3	29	•	•	•	•	*5*	*1·34*	—	*0·0*	—	*0*	—	*Whit. Park.*
a Hawarden Bridge ..	58	11th	37	11th	54·9	40·6	48·0	+ 6·1	48	4	5	•	•	•	•	•	6	0·73	+ 0·19	*0·8*	—	*11*	—	*Liverpool.*
											2	28	41·2	+1·1	43·4	+0·2	5	0·39	- 0·09	*0·7*	- *0·3*	*10*	- *4*	*Southport.*
b, NORTH WALES.											0	36	42·2	+1·2	45·1	-0·2	—	—	—	*0·0*	—	*0*	—	*Manchester (City).*
p Llandudno	55	11, 14	40	10, 11	51·6	43·4	47·7	+ 4·4	40	0	•	•	•	•	•	•	5	1·50	+ 0·87	1·2	0·0	16	0	Llandudno.
a Holyhead	53	11, 13, 14	41	11th	51·6	44·7	48·3	+ 4·6	44	0	•	•	•	•	•	•	7	1·10	+ 0·22	0·8	—	11	—	Aberdovey.
p Bettws-y-Coed ..	56	13th	35	11, 12	52·3	38·3	45·6	+ 2·6	41	10	0	33	44·9	+2·9	46·1	+0·7	7	5·92	—	0·2	—	3	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet

II.—DATA from which the SUMMARY in Table IV. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·9	—	12	—	Aberystwyth.
a Llangammarch Wells	54	14th	32	10th	51·4	38·6	45·3	+ 6·3	37	10	1	29	44·0	+1·1	46·2	−0·7	6	2·64	—	0·4	—	5	—	Llangammarch
a Pembroke	55	13th	42	12th	52·7	45·7	49·3	+ 4·2	51	0	*	*	*	*	*	*	6	1·39	+ 0·49	1·0	− 0·5	13	− 6	Pembroke.[Wells
p Cardiff	53	11, 14	37	9th	51·3	43·0	47·3	+ 7·0	37	0	1	28	44·2	+1·8	46·3	+0·1	6	2·23	+ 1·22	*0·5*	—	7	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	54	8, 13, 14	40	9th	52·6	44·1	48·5	+ 6·8	46	0	0	31	*	*	*	*	7	1·69	+ 0·92	*0·5*	—	*7*	—	*Clifton.*
a Shaftesbury	54	14th	37	12, 13	49·9	40·3	45·3	+ 5·4	30	5	*	*	45·3	*	46·4	*	6	1·19	+ 0·42	*	*	*	*	Shaftesbury.
a Arlington	53	8th	38	12th	50·1	42·1	46·3	+ 4·8	30	0	*	*	47·5	*	*	*	5	2·39	+ 1·02	0·9	− 0·8	11	−10	Newquay.
a Cullompton	55	14th	32	9th	52·3	41·0	46·9	+ 5·4	39	3	0	31	46·0	*	*	*	7	1·46	+ 0·61	0·4	− 0·9	5	−11	Cullompton.
a Portland	53	8, 13, 14	44	9th	52·4	46·6	49·6	+ 5·5	53	0	*	*	*	*	*	*	5	1·03	—	*0·7*	—	*9*	—	*Weymouth.*
p Plymouth	54	8, 14	41	11th	52·4	45·1	48·9	+ 4·6	48	0	1	30	47·7	+2·3	*	*	6	1·66	+ 0·68	0·8	− 0·8	10	−11	Plymouth.
p Falmouth	53	8, 14	44	11, 12	51·4	46·1	48·9	+ 3·4	48	0	*	*	*	*	*	*	6	2·13	+ 0·83	1·2	− 0·6	15	− 8	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	52	11th	39	12, 13	50·4	41·1	45·9	+ 3·3	31	3	*	*	*	*	*	*	7	1·23	+ 0·50	*	*	*	*	* *
a Blacksod Point ..	55	11, 14	40	10, 13	52·7	43·7	48·4	+ 4·3	45	0	*	*	*	*	*	*	7	2·54	+ 1·24	*	*	*	*	* *
p Markree Castle ..	58	11, 13, 14	32	10, 12	52·6	37·4	45·3	+ 4·4	42	13	2	27	44·9	*	47·4	*	7	1·83	+ 0·81	1·0	− 0·2	14	− 2	Markree Castle.
a Birr Castle	56	11, 13	32	11th	53·0	37·4	45·5	+ 4·4	44	13	*	*	*	*	*	*	7	0·86	+ 0·15	*0·7*	− *0·8*	*10*	−*11*	*Birr Castle.*
b, East .. { *p* Armagh	55	11, 14	35	11th	50·7	38·6	44·9	+ 4·3	35	10	0	34	43·2	+1·6	45·9	+0·5	7	1·19	+ 0·54	0·8	− 0·5	11	− 7	Armagh.
a Donaghadee	56	13th	36	11, 12	51·3	40·0	45·9	+ 3·8	36	6	*	*	*	*	*	*	5	0·66	− 0·04	*	*	*	*	* *
10. IRELAND, S.											1	27	44·5	+1·9	46·1	+0·3	—	—	—	*	*	*	*	Trinity Coll.
											2	26	*	*	*	*	—	—	—	1·0	− 0·7	14	−10	Phœnix Park.
a, East .. { *p* Dublin, City	57	11, 13, 14	38	10th	52·7	43·4	48·2	+ 5·1	43	0	0	34	*	*	*	*	6	0·62	+ 0·13	*	*	*	*	Dublin City.
a Kilkenny	56	11, 13	30	10, 11	53·4	37·7	45·9	+ 4·7	45	12	*	*	*	*	*	*	7	1·01	+ 0·27	*	*	*	*	* *
a Waterford	57	14th	34	11th	52·9	39·9	46·7	+ 4·1	42	6	*	*	*	*	*	*	7	0·78	− 0·18	*	*	*	*	* *
b, West .. { *a* Birr Castle	56	11, 13	32	11th	53·0	37·4	45·5	+ 4·4	44	13	*	*	*	*	*	*	7	0·86	+ 0·15	0·7	− 0·8	10	−11	Birr Castle.
a Foynes	57	10th	37	10th	54·1	40·1	47·4	+ 4·0	46	5	*	*	*	*	*	*	7	1·49	+ 0·49	*	*	*	*	* *
a Cahir	57	14th	31	10, 11	53·1	37·0	45·4	+ 2·4	45	14	*	*	*	*	*	*	7	1·50	—	*	*	*	*	* *
a Killarney	58	13th	33	10th	54·0	39·2	46·9	+ 3·0	46	8	*	*	*	*	*	*	7	2·13	+ 0·54	*	*	*	*	* *
a Valencia	56	11th	34	11th	54·1	41·9	48·2	+ 2·2	44	0	*	*	*	*	*	*	7	2·05	+ 0·61	0·8	− 0·6	11	− 8	Valencia.
a Roche's Point	55	13, 14	38	11th	52·9	41·7	47·5	+ 2·4	40	1	*	*	*	*	*	*	7	1·17	− 0·02	1·1	—	14	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	54	8, 9, 14	43	10th	52·9	46·4	49·8	+ 1·7	55	0	*	*	*	*	*	*	6	1·43	+ 0·53	1·2	− 0·5	15	− 7	Scilly.
a Jersey, St. Aubins ..	55	14th	44	13th	52·7	45·9	49·4	+ 4·2	52	0	*	*	*	*	*	*	7	0·57	− 0·33	0·9	− 1·2	11	−15	St. Heliers.
a Guernsey (Villa Carey)	54	14th	43	12th	52·4	47·3	50·0	+ 4·1	56	0	0	38	48·6	+2·0	49·7	−0·1	7	0·93	− 0·05	0·8	− 0·7	10	− 8	Guernsey.*

Additional Sunshine Means:—*Bognor, 0·7 hrs. 9 %; Ramsgate, 0·9 hrs. 12 %; Rhyl, 1·1 hrs. 15 %; Salcombe, 0·7 hrs. 9 %; Tenby, 1·1 hrs. (−0·4) 14 % (− 6 %); Torquay, 0·7 hrs. (−1·0) 9 % (−13 %).*

* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, December 14th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	45	45	45·0	−0·2	SCOTLAND, W. ..	Lamlash	48	45	47·2	−0·4
	Kirkwall	45	42	43·6	+0·7		Ballantrae	46	43	44·6	0·0
	Wick	46	45	45·8	−0·6	ENGLAND, N.W. ..	Port Erin	50	49	49·2	+0·3
	Cromarty	44	42	43·2	+1·2		Newquay	51	51	51·0	+3·1
SCOTLAND, E. ..	Pennan Bay	44	41	42·7	−0·2	ENGLAND, S.W. ..	Scilly	53	50	51·0	—
	Aberdeen, Cove Bay	45	44	44·4	+0·5		Plymouth‡	51	50	50·3	+0·8
ENGLAND, N.E. ..	Burnmouth, Berwick	42	39	40·9	−2·3		Salcombe	51	49	49·5	+0·1
	Scarborough	46	41	43·3	−0·9	IRELAND, N.W. ..	Sheephaven	48	46	46·8	+0·5
ENGLAND, E. ..	Shipwash Lightship	47	46	46·8	+1·4		Teelin	48	46	47·3	+2·2
ENGLAND, S.E. ..	Margate‡	46	45	45·6	+0·5	IRELAND, S.W. ..	Cleggan	51	46	49·1	+4·0
	Eastbourne‡	49	47	47·6	+0·5	IRELAND, E.	Seafield	53	49	51·4	+4·0
							.. .. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, only once in twelve years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTIETH WEEK—December 8th to December 14th 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (‡25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	55	33	48·2	38·3	43·4	+ 4·4	25	+ 16	10	−19	7	+ 1	2·91	+1·49	0·1	−0·5	2	− 7
Eastern.																		
1. SCOTLAND, EAST ...	58	31	49·5	37·4	43·7	+ 5·8	31	+ 23	13	−25	6	+ 1	1·16	+0·48	0·5	−0·5	7	− 8
2. ENGLAND, N.E.	58	32	51·0	39·3	45·4	+ 6·2	35	+ 26	8	−22	5	+ 2	0·42	−0·16	0·4	−0·9	5	−12
3. ENGLAND, EAST ...	58	35	51·4	42·5	47·1	+ 8·1	36	+ 26	0	−34	5	+ 1	0·53	+0·07	0·5	−0·9	7	−12
4. MIDLAND COUNTIES ...	59	31	51·7	40·1	46·1	+ 7·3	37	+ 26	5	−31	5	+ 1	0·76	+0·22	0·7	−0·5	9	− 7
5. ENGLAND, S.E.	56	37	51·2	44·5	48·0	+ 6·9	42	+ 25	0	−23	6	+ 2	0·75	+0·15	0·5	−0·9	7	−12
Western.																		
6. SCOTLAND, WEST ...	56	32	50·4	41·1	45·9	+ 5·1	31	+ 18	3	−19	7	+ 2	1·79	+0·54	0·4	−0·6	5	− 9
7. ENGLAND, N.W.	60	32	51·6	41·2	46·6	+ 6·0	36	+ 23	2	−22	6	+ 1	1·80	+1·01	0·6	−0·4	8	− 6
8. ENGLAND, S.W.	55	32	51·7	43·3	47·6	+ 5·0	39	+ 18	0	−16	6	+ 1	1·78	+0·72	0·8	−0·7	10	− 9
9. IRELAND, NORTH ...	58	32	51·8	39·7	46·0	+ 4·9	38	+ 24	6	−16	7	+ 2	1·39	+0·51	0·9	−0·4	12	− 5
10. IRELAND, SOUTH ...	58	30	53·4	39·8	46·9	+ 3·9	44	+ 21	6	−10	7	+ 2	1·29	+0·26	0·9	−0·7	12	− 9
11. ENGLISH CHANNEL ...	55	43	52·7	46·5	49·7	+ 2·7	54	+ 20	0	− 4	7	+ 2	0·98	+0·05	1·0	−0·9	12	−11

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 2 Weeks, December 1st to December 14th, 1912.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	29	+ 10	48	− 9	12	+ 1	4·44	+1·48	0·4	−0·3	6	− 5
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	34	+ 17	66	− 6	9	− 1	1·44	−0·02	0·7	−0·4	10	− 6
2. ENGLAND, N.E.	58	19	*	*	*	*	42	+ 22	50	− 6	9	+ 2	0·88	−0·25	0·2	−1·1	3	−15
3. ENGLAND, EAST ...	58	24	*	*	*	*	49	+ 26	34	−30	10	+ 1	0·89	−0·11	0·5	−0·9	6	−13
4. MIDLAND COUNTIES ...	59	20	*	*	*	*	53	+ 29	45	−22	9	+ 1	1·17	+0·03	0·6	−0·6	8	− 9
5. ENGLAND, S.E.	56	22	*	*	*	*	73	+ 37	20	−24	10	+ 1	1·19	−0·12	0·8	−0·7	10	− 9
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	41	+ 13	37	− 4	13	+ 3	2·66	+0·06	0·3	−0·7	4	−10
7. ENGLAND, N.W.	60	8	*	*	*	*	52	+ 24	33	−10	11	+ 1	2·42	+0·73	0·4	−0·7	6	− 9
8. ENGLAND, S.W.	55	22	*	*	*	*	73	+ 28	12	−19	11	+ 1	2·41	+0·19	0·8	−0·7	10	− 9
9. IRELAND, NORTH ...	58	20	*	*	*	*	71	+ 42	15	−27	13	+ 2	2·50	+0·71	0·7	−0·6	9	− 9
10. IRELAND, SOUTH ...	58	20	*	*	*	*	80	+ 32	10	−21	14	+ 4	2·43	+0·39	1·1	−0·5	14	− 6
11. ENGLISH CHANNEL ...	55	35	*	*	*	*	92	+ 21	0	− 7	13	+ 3	1·40	−0·59	1·1	−0·8	13	−10

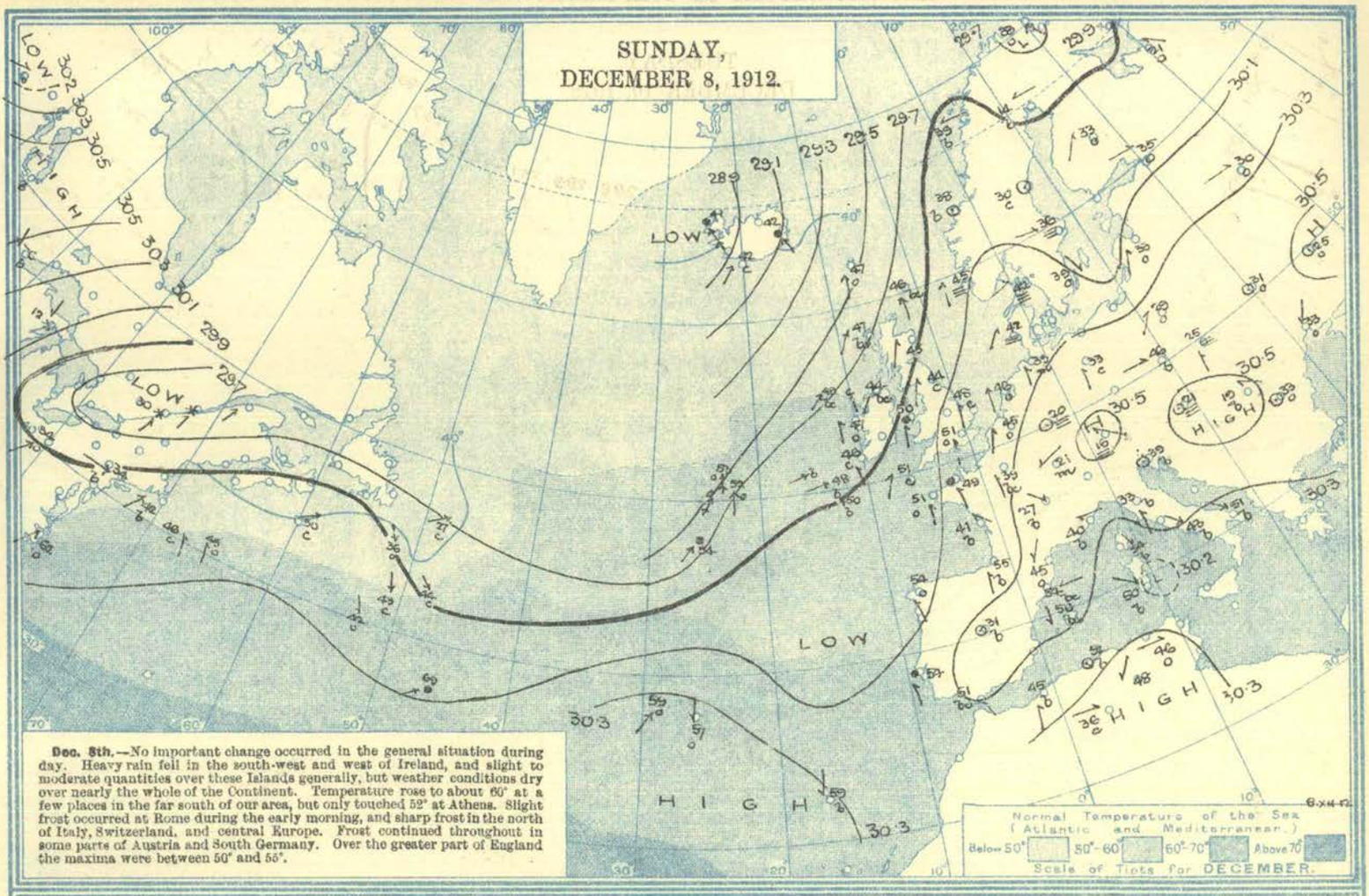
THE YEAR.—Aggregates, &c., for the Period of 50 Weeks, December 31st, 1911, to December 14th, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1936	−161	579	−152	237	0	50·47	+ 0·50	2·9	−0·2	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2171	−169	755	− 89	205	+ 9	31·57	+ 1·98	2·9	−0·9	23	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	2588	− 38	499	−117	199	+22	30·08	+ 6·20	3·1	−1·0	26	− 8
3 ENGLAND, EAST ...	91	14	*	*	*	*	3116	+ 85	388	−297	189	+17	28·18	+ 5·40	3·9	−0·6	32	− 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2858	− 86	532	−186	179	+ 9	32·62	+ 7·36	3·2	−0·8	26	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	3168	−135	304	−188	177	+12	30·40	+ 4·49	4·1	−0·4	33	− 4
Western.																		
6. SCOTLAND, WEST ...	83	6	*	*	*	*	2443	−119	455	− 93	211	+ 6	43·99	− 1·97	3·3	−0·6	27	− 5
7. ENGLAND, N.W.	84	6	*	*	*	*	2699	−104	387	−104	202	+12	37·81	+ 4·35	3·4	−0·5	28	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	2994	−164	242	−141	206	+17	44·56	+ 7·76	3·6	−0·8	29	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2544	−134	309	−149	206	−17	36·46	− 0·20	3·1	−0·5	26	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2960	−149	223	−127	235	+36	39·88	+ 1·76	3·3	−0·8	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3747	+ 13	44	− 76	214	+12	38·84	+ 7·69	4·5	−0·9	37	− 7

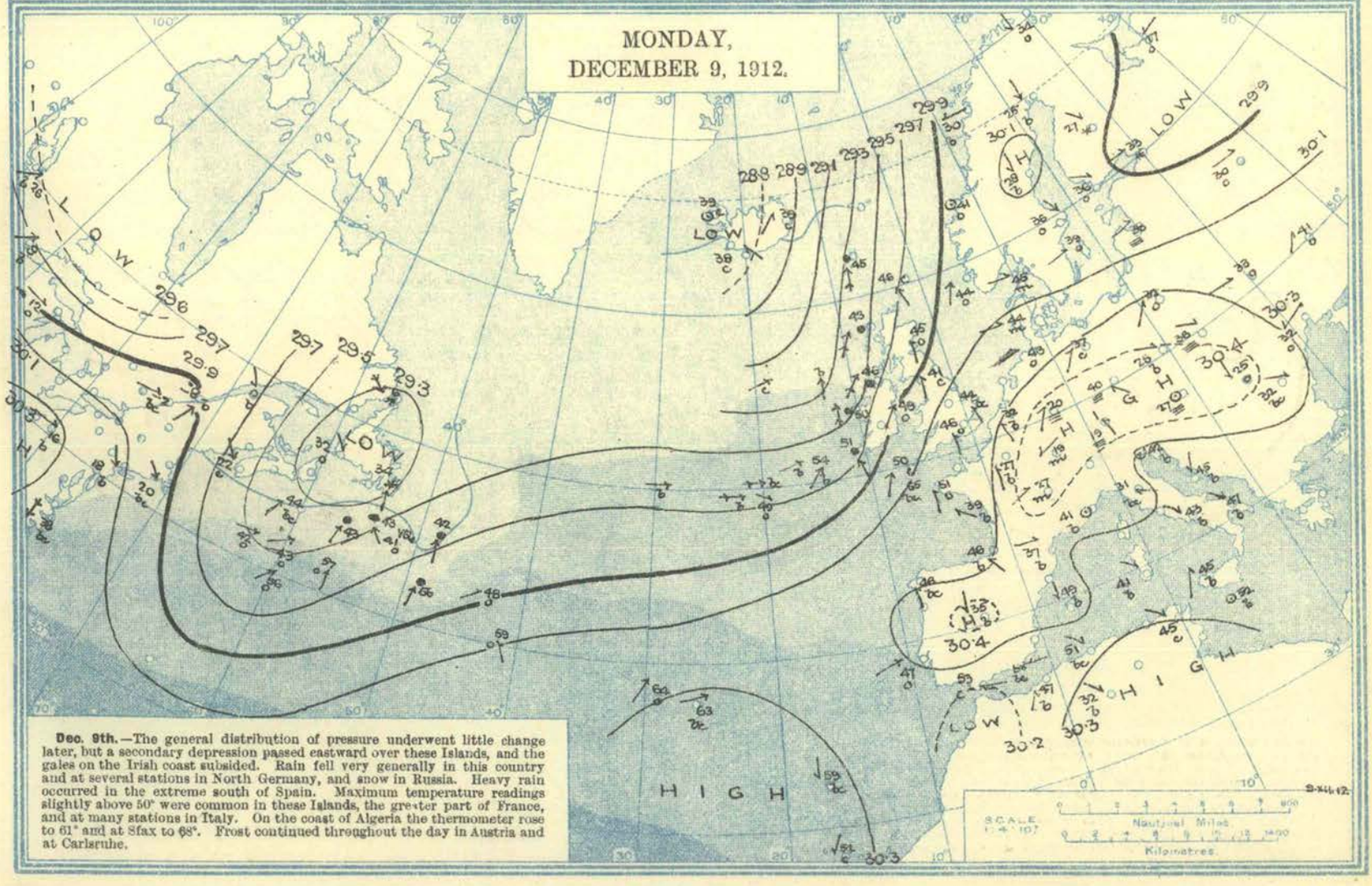
M.O., December 18, 1912.

NOTES ON TABLE IV.

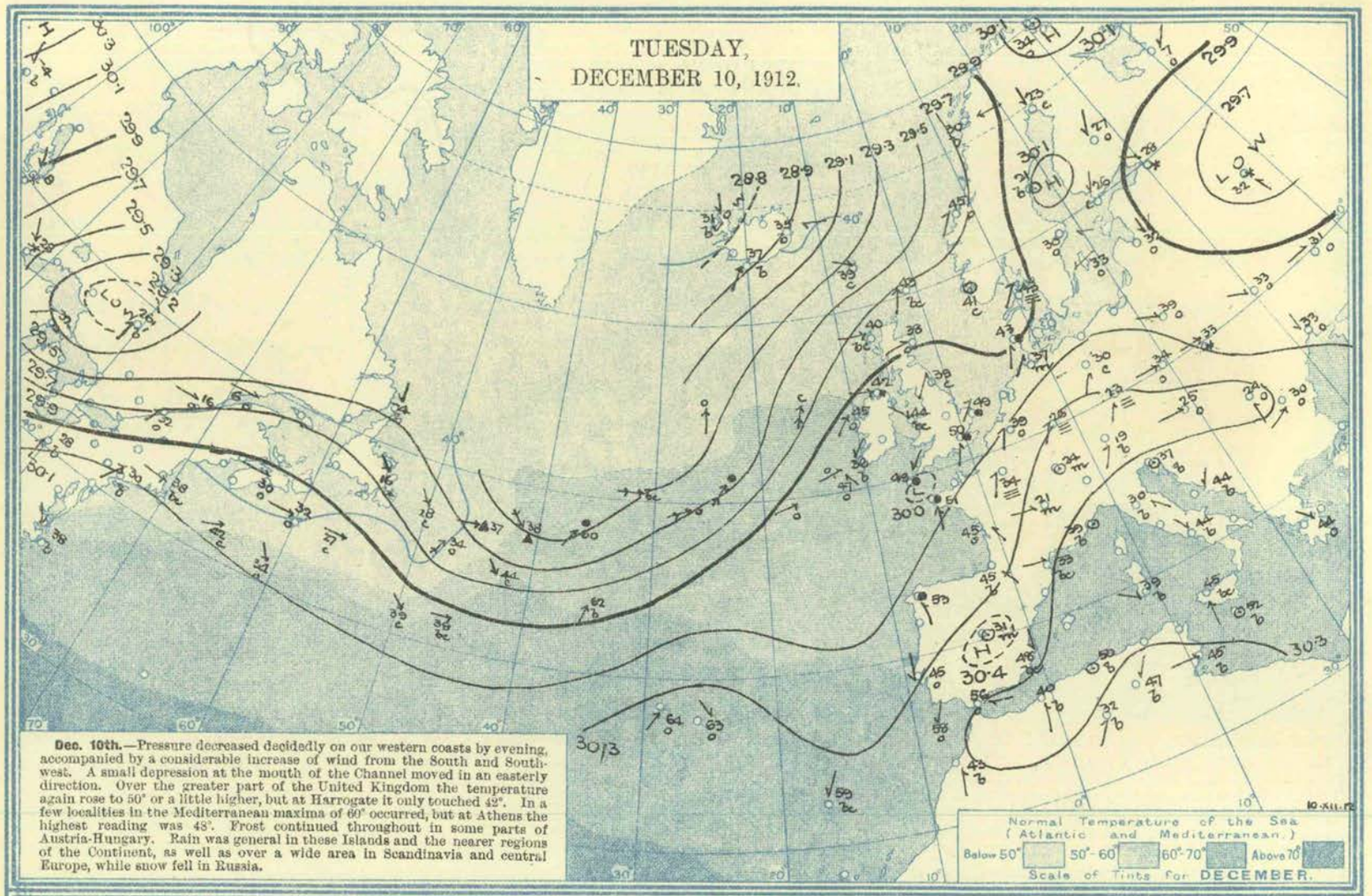
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



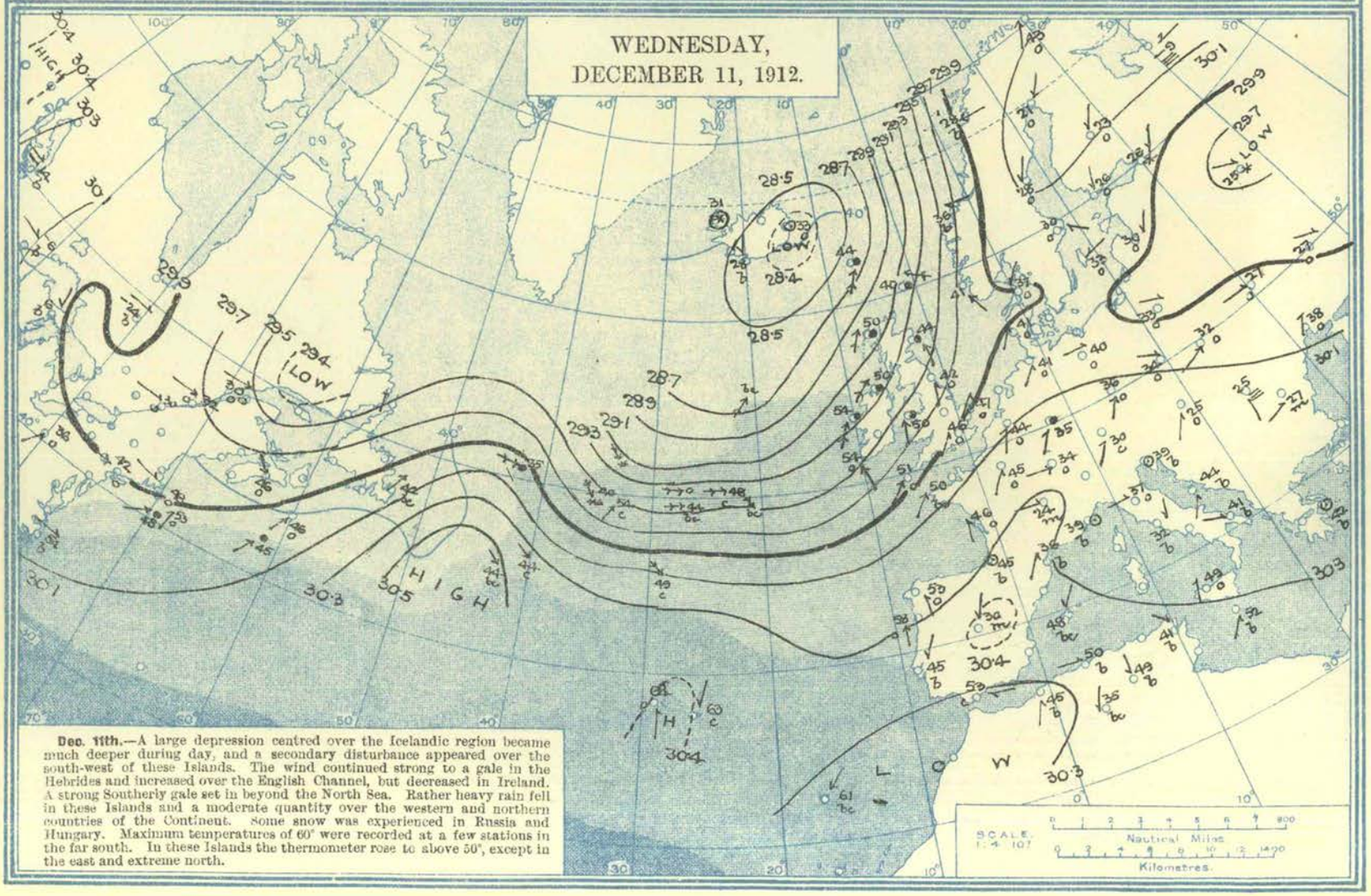
Dec. 8th.—No important change occurred in the general situation during day. Heavy rain fell in the south-west and west of Ireland, and slight to moderate quantities over these Islands generally, but weather conditions dry over nearly the whole of the Continent. Temperature rose to about 60° at a few places in the far south of our area, but only touched 52° at Athens. Slight frost occurred at Rome during the early morning, and sharp frost in the north of Italy, Switzerland, and central Europe. Frost continued throughout in some parts of Austria and South Germany. Over the greater part of England the maxima were between 50° and 55°.



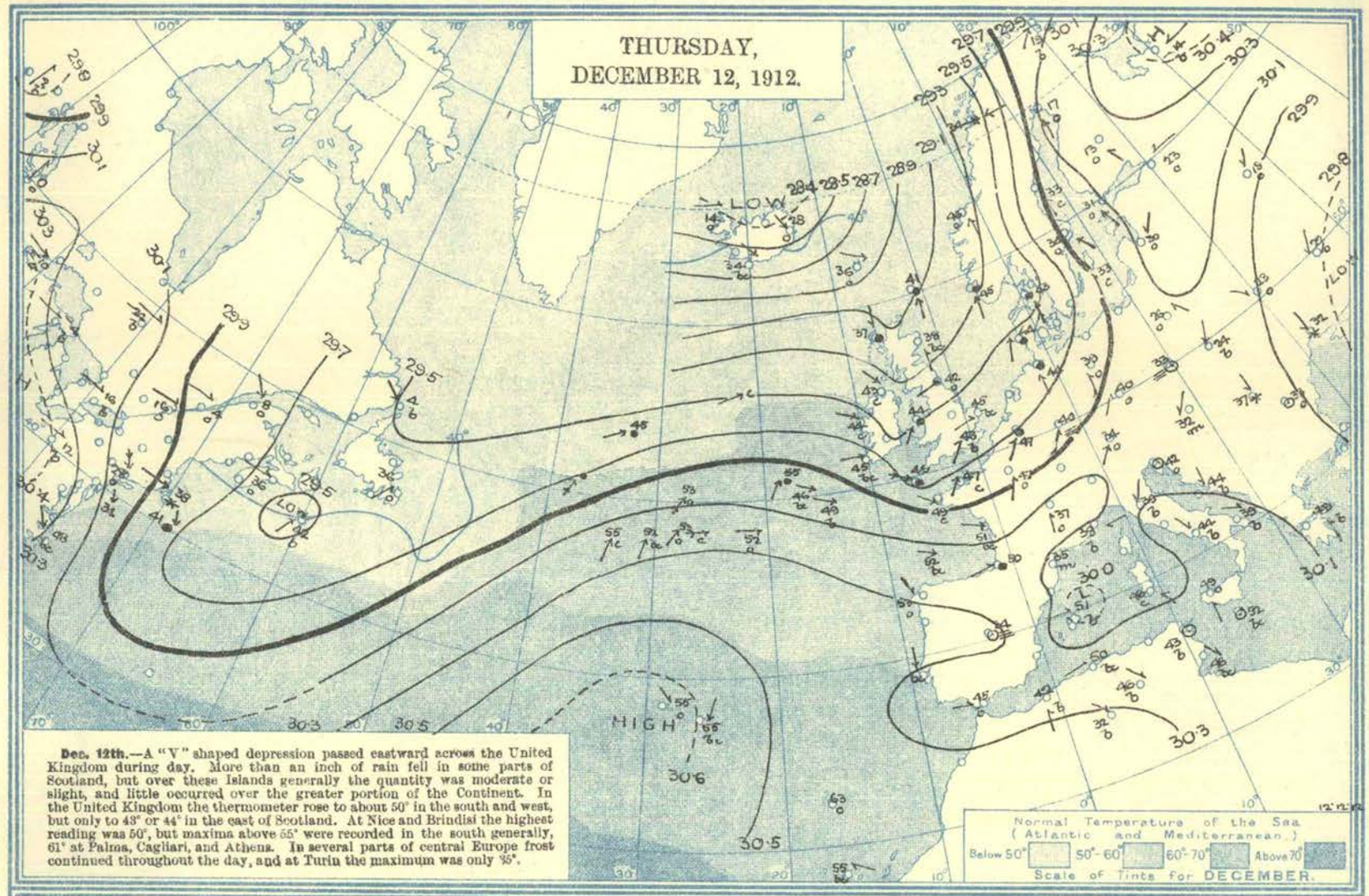
Dec. 9th.—The general distribution of pressure underwent little change later, but a secondary depression passed eastward over these Islands, and the gales on the Irish coast subsided. Rain fell very generally in this country and at several stations in North Germany, and snow in Russia. Heavy rain occurred in the extreme south of Spain. Maximum temperature readings slightly above 50° were common in these Islands, the greater part of France, and at many stations in Italy. On the coast of Algeria the thermometer rose to 61° and at Sfax to 68°. Frost continued throughout the day in Austria and at Carlsruhe.



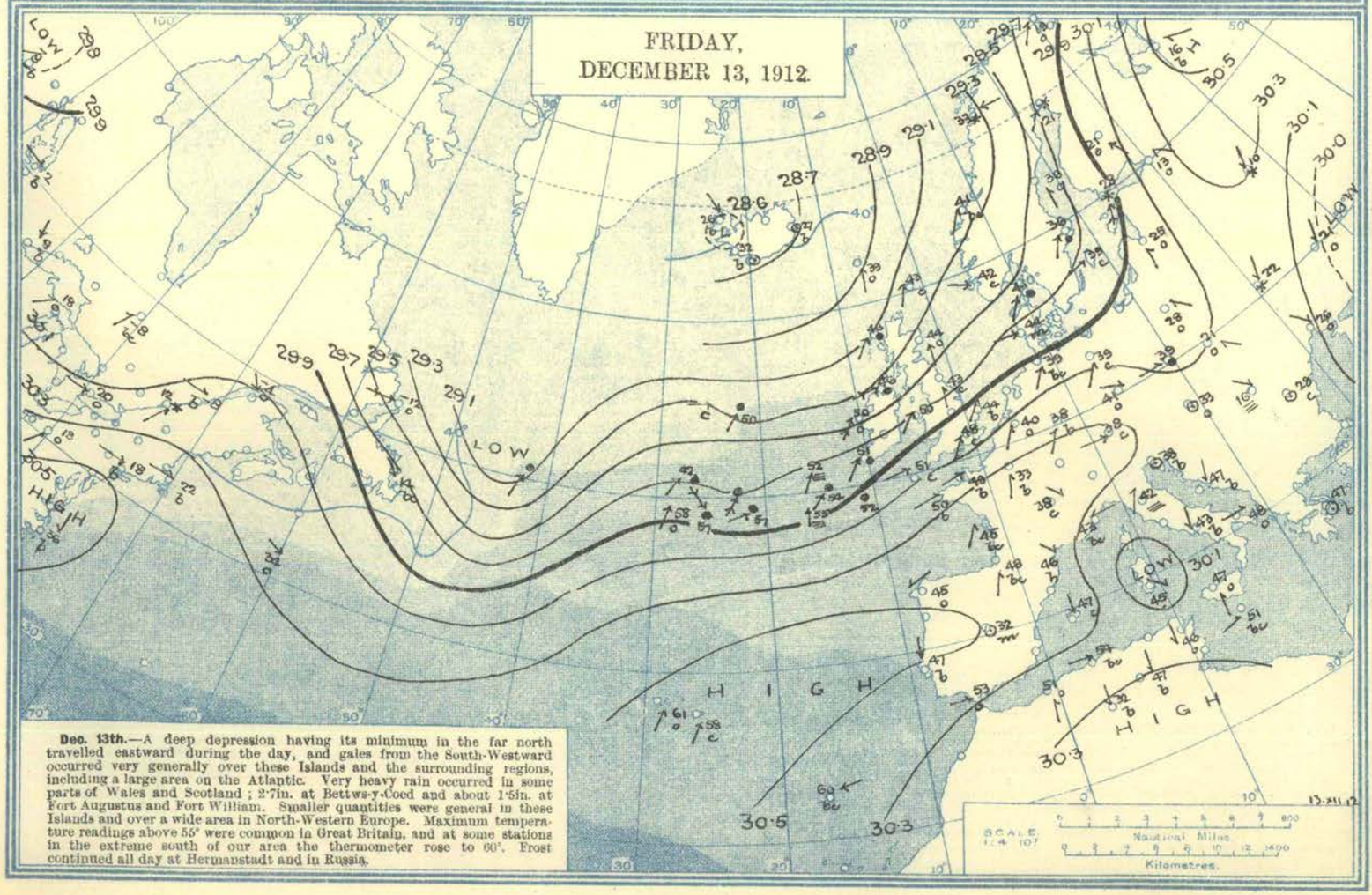
Dec. 10th.—Pressure decreased decidedly on our western coasts by evening, accompanied by a considerable increase of wind from the South and South-west. A small depression at the mouth of the Channel moved in an easterly direction. Over the greater part of the United Kingdom the temperature again rose to 50° or a little higher, but at Harrogate it only touched 42°. In a few localities in the Mediterranean maxima of 60° occurred, but at Athens the highest reading was 48°. Frost continued throughout in some parts of Austria-Hungary. Rain was general in these Islands and the nearer regions of the Continent, as well as over a wide area in Scandinavia and central Europe, while snow fell in Russia.



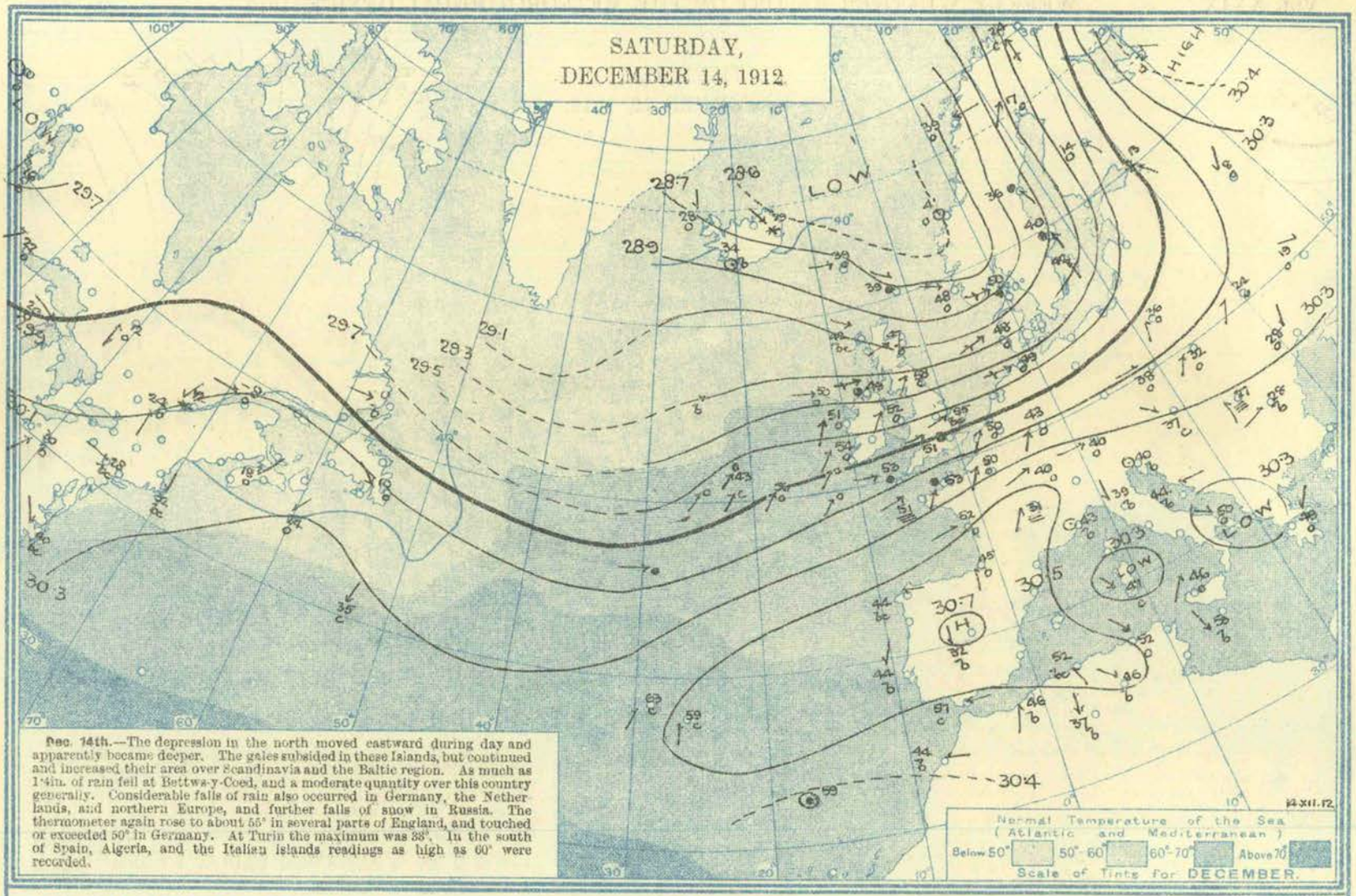
Dec. 11th.—A large depression centred over the Icelandic region became much deeper during day, and a secondary disturbance appeared over the south-west of these Islands. The wind continued strong to a gale in the Hebrides and increased over the English Channel, but decreased in Ireland. A strong Southerly gale set in beyond the North Sea. Rather heavy rain fell in these Islands and a moderate quantity over the western and northern countries of the Continent. Some snow was experienced in Russia and Hungary. Maximum temperatures of 60° were recorded at a few stations in the far south. In these Islands the thermometer rose to above 50°, except in the east and extreme north.



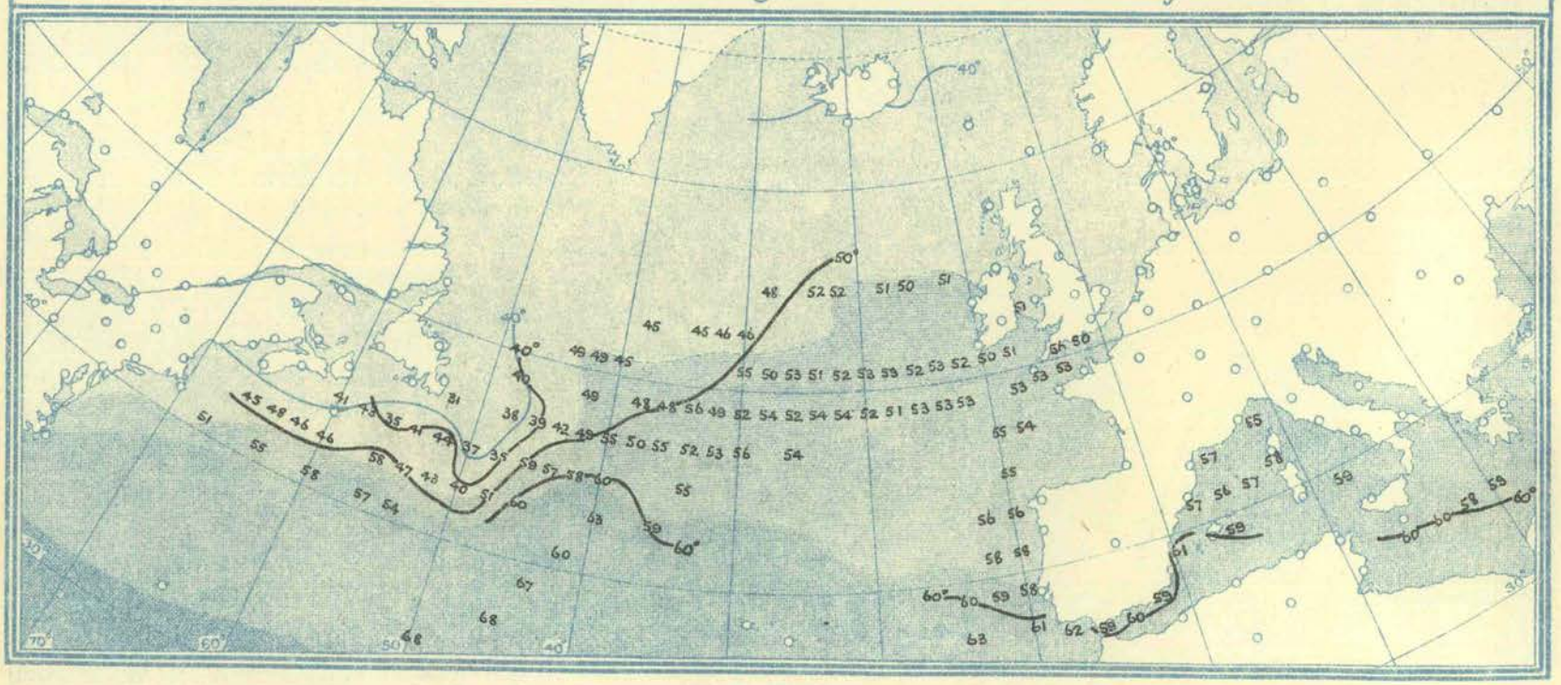
Dec. 12th.—A "V" shaped depression passed eastward across the United Kingdom during day. More than an inch of rain fell in some parts of Scotland, but over these Islands generally the quantity was moderate or slight, and little occurred over the greater portion of the Continent. In the United Kingdom the thermometer rose to about 50° in the south and west, but only to 43° or 44° in the east of Scotland. At Nice and Brindisi the highest reading was 50°, but maxima above 55° were recorded in the south generally, 61° at Palma, Cagliari, and Athens. In several parts of central Europe frost continued throughout the day, and at Turin the maximum was only 35°.



Dec. 13th.—A deep depression having its minimum in the far north travelled eastward during the day, and gales from the South-Westward occurred very generally over these Islands and the surrounding regions, including a large area on the Atlantic. Very heavy rain occurred in some parts of Wales and Scotland; 2·7in. at Bettws-y-Coed and about 1·5in. at Fort Augustus and Fort William. Smaller quantities were general in these Islands and over a wide area in North-Western Europe. Maximum temperature readings above 55° were common in Great Britain, and at some stations in the extreme south of our area the thermometer rose to 60°. Frost continued all day at Hermanstadt and in Russia.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 14TH. DECEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; • = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. *Vol. XXIX. (New Series.)* } No. 51. FIFTY-FIRST WEEK, SUNDAY, DECEMBER 15TH, TO SATURDAY, DECEMBER 21ST, 1912.

Price 6d.
Annual Subscription Post Paid £1 10s. 0d.

I.—General Remarks.

Weather. In the earlier half of the week the weather was in a very unsettled state, with frequent rain in all districts and falls of hail, sleet or snow in places, as far south even as Cambridge and Clacton-on-Sea. A thunderstorm occurred at Stornoway on Monday, and at Glasgow both on Monday and Tuesday, and lightning was seen on the first three days on several parts of our north and north-west coasts. After the middle of the week a rather decided improvement in the weather took place over England.

Temperature was above the average, the excess being least in Scotland North, but large in all the English districts, exceeding 5° in several. The highest readings occurred in the east and south-east of England on the 15th, but over the country generally on the 20th, the values ranging from 59° in the Midland Counties, and 58° in England Northwest to 53° in Scotland West, and 52° in Scotland North. The lowest readings were observed between the 17th and 19th, when the thermometer in the screen fell to 32° or less in most districts, to 27° in the Midland Counties and Scotland North, and to 24° in Scotland East. On the grass the lowest readings reported were 26° at West Linton and Kew, 22° at Little Massingham and Southend-on-Sea, and 23° at Buxton. The temperature of the soil at a depth of 1 foot and 4 feet was above the average.

Mean Temperature of the Sea was below the average on the north and north-east coasts of Great Britain, but above it elsewhere. In the west and south it was generally higher than in the corresponding week of last year.

Rainfall was in excess of the normal in all districts except England North-East and East and the English Channel. In Scotland North and West and Ireland North the excess was large. As much as 1·2 in. fell at Arlington on the 15th, and 1·0 in. at Buxton on the 17th.

Bright Sunshine varied considerably in amount in different parts of the country, but was, as a rule, slightly below the average. The mean duration ranged from a little more than an hour and a half (between 21 and 23 per cent. of the possible amount) in the Midland Counties and England North-East and South-East to less than ½ hour (only 3 per cent.) in Scotland North.

Barometer and Wind. In the early part of the week the country lay between an anticyclone centred between Spain and the Azores, and large depressions which passed along in an easterly direction far to the north of our islands. The prevailing winds were therefore W. or S.W., and strong in force, with gales on several of the more exposed parts of our coasts. After the 17th the Atlantic anticyclone gave way, and the highest pressures were found over Switzerland and South Germany. A large depression, very deep at first, but of diminishing intensity, now moved from the central parts of the Atlantic to the neighbourhood of the Faeröe, the wind in our islands becoming more S. and gradually moderating in force.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 203.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N..	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual
	Rainfall ...	Very heavy	Heavy	Moderate	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Very heavy	Moderate	Moderate
	Sunshine ...	Scanty	Moderate	Abundant	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 3 weeks from Dec. 1st, 1912.	Warmth ...	1 * 1	1 * 1	2 * 1	2 * 0	2 * 0	2 * 0	2 * 1	2 * 0	2 * 0	3 * 0	2 * 0	2 * 0
	Rainfall ...	2 * 0	2 * 1	0 * 1	0 * 0	0 * 0	0 * 0	2 * 1	1 * 1	1 * 1	2 * 0	1 * 0	0 * 1
	Sunshine ...	0 * 2	0 * 1	1 * 2	0 * 2	1 * 2	0 * 1	0 * 2	0 * 1	0 * 2	0 * 2	0 * 2	0 * 3

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ...	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(27799—24.) Wt. 173—814. 450. 12/12. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.					Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*48*	*19, 20, 21*	*31*	*18th*	*43·0*	*35·0*	*39·2*	—	*3*	*« 27*	•	•	38·0	•	•	•	*7*	*1·62*	—	*0·0*	—	*0*	—	*Baltasound.*
a Islands .. *a* Lerwick	50	20th	32	18, 19	43·3	35·3	39·5	− 0·7	4	26	•	•	•	•	•	•	7	1·25	—	0·2	− 0·6	3	− 11	Deerness.
a Islands .. *a* Stornoway	51	19th	30	19th	43·6	35·1	39·5	− 0·3	4	26	•	•	•	•	•	•	7	1·97	+ 0·52	0·4	− 0·4	7	− 6	Stornoway.
a Islands .. *a Castlebay, Barra Isd.*	*?53*	*20th*	*32*	*18th*	*47·6*	*38·1*	*43·0*	+ *0·5*	*23*	*11*	•	•	•	•	•	•	?	?	—	*0·1?*	—	*2*	—	*Castlebay.*
b, Mainland. *a* Wick	49	20th	29	18, 19	41·1	33·4	37·4	− 1·6	0	32	•	•	•	•	•	•	6	1·07	+ 0·40	•	•	•	•	
b, Mainland. *p* Strathpeffer ..	51	21st	29	19th	44·7	34·4	39·8	+ 2·7	8	30	•	•	•	•	•	•	7	1·37	+ 0·59	0·1	− 0·9	2	− 14	Strathpeffer.
b, Mainland. *p* Glencarron ..	50	19, 20	30	18th	43·0	37·0	40·1	+ 3·1	3	19	•	•	•	•	•	•	7	3·21	+ 0·83	•	•	•	•	
b, Mainland. *p* Fort Augustus..	52	20th	27	18th	43·4	35·1	39·4	+ 1·0	4	26	•	•	•	•	•	•	7	3·93	+ 2·63	0·0	− 0·3	0	− 5	Fort Augustus.
b, Mainland. *p* Fort William ..	50	20th	29	18th	43·7	35·7	39·9	− 0·1	5	25	•	•	•	•	•	•	7	5·83	+ 3·57	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle..	53	20, 21	30	18th	44·3	35·4	40·0	+ 1·6	6	26	5	18	37·1	−1·3	40·1	−0·5	—	—	—	0·9	•	4	•	Crathes S.
a Nairn	52	20th	29	19th	42·1	33·7	38·1	+ 0·6	0	31	•	•	•	•	•	•	6	0·45	− 0·17	*1·1*	•	*17*	•	*Gordon Castle.*
a Aberdeen ..	53	20th	31	19th	44·1	37·9	41·1	+ 3·0	6	17	•	•	•	•	41·5	−0·8	7	0·91	+ 0·41	0·6	—	9	—	Nairn.
a Balmoral ..	50	20th	24	19th	41·1	31·6	36·5	+ 2·0	0	39	4	21	•	•	•	•	5	0·36	− 0·29	1·0	− 0·2	16	− 3	Aberdeen.
p Crieff	51	20th	26	19th	42·3	32·9	37·8	+ 0·2	1	33	•	•	•	•	•	•	4	1·07	+ 0·35	•	•	•	•	Balmoral.
a Leith	56	20th	33	17th	47·3	39·0	43·3	+ 3·8	22	8	•	•	•	•	•	•	7	3·15	+ 2·21	0·2	•	3	•	Balruddery.
p West Linton ..	56	20th	33	17th	47·3	39·0	43·3	+ 3·8	22	8	•	•	•	•	•	•	6	1·10	+ 0·68	•	•	•	•	
p Marchmont ..	51	20, 21	27	18th	42·6	33·0	38·0	+ 1·3	2	33	4	20	•	•	•	•	8	1·48	—	*0·3*	—	*5*	—	*West Linton.*
	52	21st	27	19th	43·9	34·1	39·2	− 5·1	5	30	4	27	38·1	+0·3	•	•	4	0·70	+ 0·13	0·6	− 0·6	9	− 8	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	55	20th	32	19th	47·1	37·6	42·5	+ 3·8	22	12	4	28	38·4	+0·2	42·0	+0·6	3	0·24	− 0·39	2·2	•	32	•	Cockle Park.
a Shields	52	20th	33	19th	46·0	37·3	41·8	+ 2·5	11	20	•	•	•	•	•	•	2	0·26	− 0·18	•	•	•	•	*Newcastle.*
p Durham	54	20th	28	19th	46·4	36·6	41·7	+ 3·9	12	23	2	28	•	•	•	•	3	0·46	+ 0·06	2·0	+ 0·7	29	+10	Durham.
a, North .. *p* Rounton	53	20th	30	19th	46·9	37·0	42·2	+ 4·6	22	14	4	24	39·5	•	•	•	3	0·16	− 0·26	•	•	•	•	Rounton.
a North .. *a West Witton*	*54*	*20th*	*32*	*19th*	*46·3*	*37·1*	*41·9*	—	*12*	*22*	2	28	40·7	•	42·7	•	*4*	*0·61*	—	•	•	•	•	*West Witton.*
a North .. *p* Scarborough	54	20th	34	17, 19	46·1	37·5	42·0	+ 2·4	11	13	•	•	•	•	43·1†	•	6	0·22	− 0·28	1·8	—	26	—	Scarborough.
p York	56	15th	34	19th	49·3	38·1	43·9	+ 5·7	30	11	•	•	42·0	+0·9	44·6	+0·3	3	0·32	− 0·10	0·5	− 0·3	7	− 4	York.
a Spurn Head	53	20th	35	17, 18	46·1	38·0	42·2	+ 2·4	18	11	1	26	41·0	+1·0	45·0	+0·3	2	0·03	− 0·37	*0·4*	—	*6*	—	*Hull.*
b South .. *a* Lincoln	53	20th	33	19th	47·7	38·1	43·1	+ 5·2	24	11	•	•	41·0	+0·4	43·7	−0·8	2	0·16	− 0·26	•	•	•	•	Lincoln.
b South .. *a* Fulbeck	53	20th	32	19th	47·0	37·9	42·6	+ 4·9	21	11	2	26	42·7	+1·8	45·6	+0·3	4	0·41	− 0·04	1·8	•	25	•	Rauceby.
											•	•	•	•	•	•	—	—	—	1·4		19	—	Skegness.
3. ENGLAND, E.											4	27	42·5	+1·2	46·6	+0·9	—	—	—	*0·9*	—	*12*	—	*Lowestoft.*
p Cromer											•	•	•	•	•	•	—	—	—	1·1	—	15	—	Cromer.
p Little Massingham ..	—	—	*31*	*17th*	—	*36·6*	—	—	—	—	4	22	•	•	•	•	3	*0·30*	—	*0·9*	—	*12*	—	*Little Massingham*
a, North .. *a* Yarmouth	50	15, 16	34	17–19	47·7	38·9	43·5	+ 4·8	24	9	•	•	42·3	+1·5	46·0	+0·7	3	0·38	+ 0·10	0·9	—	12	—	Yarmouth.
a, North .. *a* Norwich	50	15, 20	34	17, 19	46·3	38·9	42·8	+ 4·3	19	9	2	27	41·9	•	•	•	3	0·21	—	*1·3*	—	*18*	—	*Norwich.*
a, North .. *p* Gelderston ..	56	15th	33	19th	48·4	37·6	43·2	+ 4·4	27	12	•	•	•	•	•	•	2	0·09	− 0·37	1·0	− 0·5	14	− 7	Gelderston.
											4	27	42·5	+1·2	46·6	+0·9	—	—	—	1·4	—	19	—	Cambridge.
p Cambridge	56	15th	33	17, 18, 19	49·1	37·6	43·6	+ 5·5	30	12	•	•	•	•	•	•	3	0·30	− 0·04	1·4	+ 0·1	19	+ 2	
a Felixstowe	*53*	*15th*	*34*	*17, 19*	*47·3*	*39,7*	*43·7*	+ *4·1*	*22*	*6*	•	•	•	•	•	•	*3*	*0·15*	—	*1·1*	—	*14*	—	*Felixstowe.*
a Clacton-on-Sea ..	50	15th	34	18, 19	46·3	40·3	43·4	+ 4·3	17	5	2	30	44·2	+0·7	47·0	−0·3	3	0·33	—	0·8	—	11	—	Clacton.
b, South .. *a* Rothamsted ..	51	15, 19, 20	30	17th	48·4	38·4	43·6	+ 5·4	26	10	•	•	•	•	•	•	4	0·30	− 0·23	1·5	+ 0·2	20	+ 2	Rothamsted.
a Shoeburyness	*51*	*15th*	*35*	*19th*	*47·9*	*40·9*	*44·5*	+ *4·8*	*22*	*3*	4	22	44·9	+2·0	•	•	*2*	*0·53*	+ *0·20*	*1·3*	—	*17*	—	*Southend.*
p Tottenham	54	15th	34	17th	49·4	39·3	44·6	+ 5·3	30	8	2	29	•	•	47·8	+1·1	4	0·51	—	0·8	—	11	—	Tottenham.
4. MIDLAND COUNTIES.											0	32	41·4	+1·4	43·9	+0·6	—	—	—	*0·7*	—	*10*	—	*Huddersfield.*
a Harrogate	54	20th	32	18, 19	46·1	36·6	41·5	+ 3·8	11	23	3	27	41·4	+0·6	43·2	+1·0	5	0·80	+ 0·22	1·6	—	23	—	Harrogate.
a Bawtry	54	20th	33	19th	47·6	39·1	43·5	+ 5·3	23	8	2	23	41·6	•	44·0	•	4	0·39	− 0·03	0·8	− 0·2	11	− 2	Worksop.
p Buxton	*51*	*15th*	*31*	*20, 21*	*46·3*	*33·1*	*40·0*	+ *3·8*	*12*	*36*	3	25	41·2	+1·5	44·8	+0·6	*6*	*1·90*	+ *0·72*	*1·4*	—	*19*	—	*Buxton.*
a East .. *a* Nottingham ..	54	20th	34	17, 18	47·9	39·1	43·7	+ 5·1	24	8	2	28	41·7	+1·6	43·5	+0·5	4	0·45	− 0·03	1·5	—	21	—	Nottingham.
a East .. *a* Birmingham, Edgbsn.	53	15th	33	17th	47·4	38·3	43·0	+ 4·7	23	10	3	25	43·8	+1·5	46·5	+0·5	3	0·70	+ 0·20	1·7	—	23	—	Birmingham.
a East .. *a* Raunds	53	20th	31	17, 19	47·9	37·4	42·9	+ 4·7	26	13	3	23	43·1	•	47·2	•	3	0·23	—	•	•	•	•	Raunds.
a East .. *a* Oxford	52	20th	35	17th	48·4	40·4	44·6	+ 5·3	25	4	2	30	•	•	•	•	4	0·38	− 0·07	2·0	+ 0·7	26	+ 9	Oxford.
											1	30	41·7	+1·3	44·6	+0·3	—	—	—	1·1	•	15	•	Sheffield.
a Cheadle	50	19, 20	30	18th	45·6	36·0	41·0	+ 3·6	10	25	4	21	•	•	•	•	4	0·40	− 0·25	•	•	•	•	Cheadle.
p Shrewsbury	59	20th	29	18th	51·0	36·9	44·2	+ 3·8	37	14	3	28	•	•	•	•	6	0·49	—	•	•	•	•	Shrewsbury.
b, West .. *a* Hereford	52	20th	35	19th	48·6	40·1	44·5	+ 5·6	25	5	0	31	•	•	•	•	4	0·40	− 0·11	•	•	•	•	Hereford.
b, West .. *a* Cirencester ..	52	20th	27	17th	47·3	36·1	41·9	+ 3·7	15	26	1	27	43·8	•	45·8	•	5	0·86	+ 0·27	1·7	+ 0·5	22	+ 6	Cirencester.
b, West .. *a* Bath	54	19, 20	33	17th	51·3	41·6	46·6	+ 6·4	34	1	•	•	45·3	+1·7	48·0	+1·2	4	0·71	+ 0·03	2·0	—	26	—	Bath.
5. ENGLAND, S.E.											2	27	44·8	+1·6	48·0	+1·9	—	—	—	•	•	•	•	Canterbury
p Kew	56	15th	34	17th	49·7	40·0	45·0	+ 5·5	29	6	3	20	44·8	+2·3	47·1	+0·9	2	0·34	− 0·09	1·5	+ 0·3	20	+ 4	Kew.
a Marlborough ..	52	15th	33	17th	48·0	40·0	44·2	+ 6·0	24	6	2	25	•	•	46·9	•	4	0·63	− 0·03	1·4	+ 0·3	18	+ 3	Marlborough.
a Margate	53	15th	33	17th	49·1	42·0	45·7	+ 5·4	26	0	•	•	45·7	+2·4	47·1	+1·7	2	0·53	+ 0·07	1·6	+ 0·1	21	+ 2	Margate.
a Wisley, Surrey ..	54	15th	34	17th	48·9	40·6	44·9	+ 5·3	26	4	3	27	44·3	+2·1	46·6	+0·7	3	0·13	—	1·6	•	21	•	Wisley
a Swarraton ..	53	15th	32	17th	47·6	40·4	44·1	+ 5·5	21	4	2	26	45·8	+2·5	48·2	+1·0	3	0·58	− 0·11	1·9	—	25	—	Worthing.
a Tunbridge Wells ..	52	15th	31	17th	47·4	38·7	43·2	+ 4·8	22	9	4	25	43·7	+1·8	•	•	3	0·91	+ 0·07	1·9	+ 0·5	25	+ 7	Tunbridge Wells.
a Dungeness	62	15th	35	17, 19	49·6	42·1	46·0	+ 5·0	28	0	•	•	•	•	•	•	3	0·70	+ 0·21	1·9	—	25	—	Littlestone.
p Hastings.. ..	53	15, 16	34	17th	49·7	39·6	44·9	+ 3·9	30	7	3	26	44·7	•	47·3	•	3	0·84	+ 0·22	*2·1*	+ *0·3*	*27*	+ *4*	*Hastings.*
p Southampton	55	15th	34	17th	50·6	41·0	46·0	+ 4·8	32	3	1	26	•	•	•	•	3	0·48	− 0·18	1·4	− 0·1	18	− 1	Southampton
a Ventnor	53	15th	39	17th	49·6	43·7	46·8	+ 3·4	34	0	•	•	•	•	•	•	3	0·24	− 0·38	1·4	− 0·2	18	− 2	Ventnor.
											1	30	46·4	+2·0	48·8	+1·0	—	—	—	*1·4*	•	*18*	•	*Portsmouth.*
											•	•	46·5	•	48·9	•	—	—	—	2·1	+ 0·4	27	+ 6	Eastbourne.
											•	•	45·8	•	47·0	•	—	—	—	*1·9*	—	*25*	—	*Bournemouth.*
LONDON.											0	31	•	•	47·0	•	—	—	—	*1·2*	- *0·4*	*16*	- *5*	*Brighton.*
a Westminster	*55*	*15th*	*35*	*17th*	*49·7*	*42·0*	*46·0*	+ *6·1*	*28*	*0*	2	29	•	•	•	•	*3*	*0·48*	+ *0·05*	*0·8*	+ *0·4*	*11*	+ *5*	*Westminster.*
a Greenwich	*53*	*15, 20*	*34*	*17th*	*48·8*	*40·7*	*45·0*	+ *5·4*	*26*	*4*	3	28	•	•	•	•	*3*	*0·58*	+ *0·16*	*1·5*	+ *0·4*	*20*	+ *6*	*Greenwich.*
a Hampstead ..	*50*	*15, 20*	*32*	*17th*	*47·0*	*39·0*	*43·2*	—	*21*	*8*	2	27	•	•	•	•	*2*	*0·46*	—	*1·1*	—	*15*	—	*Hampstead.*
a Camden Square ..	*53*	*20th*	*33*	*17th*	*49·0*	*40·1*	*44·7*	—	*27*	*5*	2	27	•	•	•	•	*2*	*0·46*	—	*1·1*	—	*15*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch	52	20th	31	19th	45·4	37·4	41·6	+ 1·8	10	20	•	•	•	•	•	•	7	3·59	+ 2·34	•	•	•	•	
p Glasgow	53	20th	33	17, 18	45·7	37·4	41·7	+ 2·4	10	20	2	29	•	•	•	•	7	2·15	+ 1·25	0·1	- 0·4	2	- 6	Glasgow.
p Rothesay	52	19, 20, 21	33	18th	46·1	38·7	42·6	+ 2·4	18	9	•	•	•	•	44·2	+0·3	7	2·85	+ 1·74	•	•	•	•	
a Kilmarnock ..	53	20th	32	19th	46·4	38·6	42·7	+ 2·5	19	10	•	•	•	•	•	•	7	2·00	—	*0·1*	—	*1*	—	*Kilmarnock.*
a Colmonell ..	53	20th	33	19th	46·9	39·4	43·3	+ 2·0	20	7	0	32	•	•	•	•	7	1·91	+ 0·76	•	•	•	•	
p Dumfries ..	51	20th	33	17, 18	45·9	35·7	41·0	+ 2·3	11	26	4	27	40·9	•	43·7	•	7	1·23	+ 0·36	*0·5*	—	*7*	—	*Dumfries.*
p Cally, Gatehouse	53	19, 20, 21	30	18th	46·4	36·9	41·8	+ 2·9	12	22	•	•	•	•	•	•	3	1·67	+ 0·47	•	•	•	•	
b I. OF MAN																								
p Douglas	52	20th	36	18th	48·0	41·7	45·0	+ 3·1	22	1	0	32	•	•	•	•	6	0·70	− 0·38	1·1	- 0·2	16	- 3	Douglas.
											1	27	41·1	+1·0	43·7	+0·3	—	—	—	*0·2*	—	*3*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											0	32	•	•	•	•	—	—	—	1·8	•	25	•	Hoylake.
p Aspatria	52	20th	33	18th	46·3	38·4	42·5	+ 3·8	19	10	0	32	43·2	•	45·7	•	6	1·54	+ 0·67	0·2	—	3	—	Aspatria.
p Newton Rigg ..	53	19, 20	30	19th	46·4	36·4	41·6	+ 4·6	12	24	4	22	41·6	+1·2	43·3	+0·7	7	1·18	+ 0·32	0·3	- 0·7	4	−11	Newton Rigg.
p Stonyhurst	53	20th	35	19th	48·0	39·7	44·0	+ 5·5	24	6	1	29	•	•	•	•	6	1·05	+ 0·05	0·8	0·0	11	0	Stonyhurst.
p Blackpool	54	20th	38	17th	48·7	41·9	45·4	+ 5·9	24	0	1	30	43·7	•	46·3	•	6	0·80	+ 0·15	0·7	- 0·2	10	- 3	Blackpool.
p Manchester (Whit. Pk.)											•	•	•	•	•	•	—	—	—	•	•	•	•	*Whit. Park.*
a Liverpool (Bidston) ..	55	20th	37	17th	50·0	41·3	45·8	+ 5·2	30	2	•	•	•	•	•	•	6	0·34	− 0·19	*1·9*	—	*26*	—	*Liverpool.*
a Hawarden Bridge ..	56	19, 20	37	17, 18, 19	51·4	42·0	46·9	+ 6·0	34	0	0	*34*	42·0	+1·9	44·0	+1·1	3	0·23	− 0·24	*0·9*	*0·0*	*13*	*0*	*Southport.*
											0	34	42·5	+1·5	45·1	+0·1	—	—	—	*0·1*	—	*1*	—	*Manchester (City).*
b, NORTH WALES.																								
p Llandudno	56	21st	38	17th	50·7	42·3	46·7	+ 4·1	33	0	•	•	•	•	•	•	5	0·54	− 0·08	1·0	- 0·2	14	- 3	Llandudno.
a Holyhead	53	20th	39	17, 18, 19	49·3	42·9	46·2	+ 3·3	29	0	•	•	•	•	•	•	6	0·62	− 0·23	1·1	—	15	—	Aberdovey.
p Bettws-y-Coed ..	58	17th	36	18th	53·7	40·0	47·1	+ 4·8	44	6	0	33	44·6	+2·3	46·3	+1·1	7	1·53	—	0·7	—	10	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·9	—	12	—	Aberystwyth.
a Llangammarch Wells	54	20th	33	17th	48·6	37·7	43·4	+ 5·2	28	12	1	29	43·9	+1·0	46·6	0·0	6	1·61	—	1·2	—	16	—	Llangammarch
a Pembroke	54	20th	39	17th	51·1	43·4	47·4	+ 3·0	38	0	*	*	*	*	*	*	7	1·09	+ 0·20	0·7?	- 0·7	9	- 9	Pembroke.[Wells
p Cardiff	53	15th	36	17th	49·9	40·4	45·3	+ 5·8	30	4	1	30	44·8	+2·5	46·9	+1·2	5	1·53	+ 0·50	2·4	—	32	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	56	20th	37	17th	49·7	41·9	46·0	+ 5·3	28	0	1	30	*	*	*	*	5	1·09	+ 0·33	2·5	—	33	—	*Clifton.*
a Shaftesbury	51	15th	32	17th	46·9	38·6	42·9	+ 3·9	21	10	*	*	44·3	*	46·6	*	4	0·49	- 0·26	*	*	*	*	Shaftesbury.
a Arlington	52	20th	35	17th	48·4	40·3	44·5	+ 3·7	25	5	*	*	48·1	*	*	*	5	2·11	+ 0·71	1·8	+ 0·2	23	+ 3	Newquay.
a Cullompton	54	15th	33	17th	50·1	40·1	45·3	+ 4·7	31	5	1	27	46·2	*	*	*	5	0·61	- 0·26	1·4	+ 0·2	18	+ 3	Cullompton.
a Portland	53	19th	43	19th	50·9	46·1	48·6	+ 5·4	46	0	*	*	*	*	*	*	3	0·39	—	*1·7*	—	*22*	—	*Weymouth.*
p Plymouth	53	15, 16, 20	39	16, 17	51·5	44·1	48·0	+ 4·4	42	0	2	28	47·3	+1·6	*	*	4	0·62	- 0·37	2·0	+ 0·4	25	+ 5	Plymouth.
p Falmouth	53	15, 20	39	17th	50·6	44·7	47·8	+ 2·9	41	0	*	*	*	*	*	*	5	1·13	- 0·18	2·2	+ 0·4	28	+ 5	Falmouth.
9. IRELAND. N.																								
a, West .. { *a* Malin Head	51	20th	34	18th	46·3	39·0	42·8	+ 0·9	18	8	*	*	*	*	*	*	7	1·52	+ 0·81	*	*	*	*	*
a Blacksod Point ..	52	19, 20	35	17th	48·7	40·9	45·0	+ 1·5	26	3	*	*	*	*	*	*	6	2·41	+ 1·11	*	*	*	*	*
p Markree Castle ..	54	20th	31	17th	46·7	37·4	42·2	+ 2·0	21	13	3	25	43·3	*	46·9	*	6	1·54	+ 0·52	0·6	- 0·5	9	- 7	Markree Castle.
a Birr Castle	55	20th	33	17, 18, 19	48·7	38·9	44·0	+ 3·6	28	9	*	*	*	*	*	*	7	1·73	+ 1·03	*1·2*	- *0·2*	*16*	- *2*	*Birr Castle.*
b, East .. { *p* Armagh	54	20th	32	17, 18	46·4	37·6	42·2	+ 2·2	20	12	0	31	42·1	+0·4	45·6	+0·6	7	1·75	+ 1·13	0·7	- 0·5	10	- 7	Armagh.
a Donaghadee	53	20th	32	19th	46·6	38·7	42·8	+ 1·4	19	9	*	*	*	*	*	*	4	0·95	+ 0·28	*	*	*	*	*
10. IRELAND, S.											2	28	44·1	+1·5	46·1	+0·6	—	—	—	*	*	*	*	Trinity Coll.
											3	28	*	*	*	*	—	—	—	1·5	- 0·2	21	- 2	Phœnix Park.
a, East .. { *p* Dublin, City	56	20th	35	17th	49·9	40·7	45·5	+ 3·0	30	4	0	32	*	*	*	*	5	0·43	- 0·04	*	*	*	*	Dublin City.
a Kilkenny	57	21st	32	17, 18	50·0	38·0	44·2	+ 3·5	32	11	*	*	*	*	*	*	7	0·73	- 0·01	*	*	*	*	*
a Waterford	53	15, 20	32	17th	49·7	40·0	45·0	+ 2·9	29	6	*	*	*	*	*	*	6	0·81	- 0·16	*	*	*	*	*
b, West .. { *a* Birr Castle	55	20th	33	17, 18, 19	48·7	38·9	44·0	+ 3·6	27	9	*	*	*	*	*	*	7	1·73	+ 1·03	1·2	- 0·2	16	- 2	Birr Castle.
a Foynes	55	20th	36	17th	50·7	41·3	46·2	+ 3·4	32	2	*	*	*	*	*	*	7	1·65	+ 0·65	*	*	*	*	*
a Cahir	56	21st	32	17, 18	50·3	38·9	44·8	+ 2·3	33	9	*	*	*	*	*	*	7	1·26	—	*	*	*	*	*
a Killarney	54	20th	37	16, 17	50·1	41·5	46·0	+ 2·6	30	1	*	*	*	*	*	*	7	2·41	+ 0·81	*	*	*	*	*
a Valencia	54	20th	40	17th	50·9	44·3	47·7	+ 2·2	40	0	*	*	*	*	*	*	7	1·50	+ 0·06	0·4	- 0·9	5	-12	Valencia.
a Roche's Point	52	19, 20, 21	38	17th	50·6	41·4	46·2	+ 1·6	32	2	*	*	*	*	*	*	7	0·66	- 0·56			—	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	55	20th	39	17th	52·0	45·7	49·0	+ 1·6	49	0	*	*	*	*	*	*	6	0·65	- 0·27	1·5	- 0·1	19	- 1	Scilly.
a Jersey, St. Aubins ..	55	16th	40	17th	51·1	45·0	48·2	+ 3·7	43	0	*	*	*	*	*	*	4	0·42	- 0·44	1·1	- 0·9	14	-11	St. Heliers.
a Guernsey (Villa Carey)	53	15th	41	17th	48·9	45·7	47·4	+ 2·3	38	0	0	35	48·1	+1·6	50·0	+0·8	5	0·70	- 0·27	1·3	- 0·1	17	- 2	Guernsey.*

Additional Sunshine Means:—*Bognor, 1·8 hrs. 23 %; Ramsgate, 1·5 hrs. 20 %; Rhyl, 1·8 hrs. 25 %; Salcombe. 1·7 hrs. 22 %; Tenby, 1·6 hrs. (+0·1) 21 %* (+ 2 %); *Torquay, 1·9 hrs. (+0·2) 24 %* (+2 %).
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, December 21st.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	45	43	44·0	-1·0	SCOTLAND, W. ..	Lamlash	47	44	45·8	-1·4
	Kirkwall	44	40	42·0	-0·6		Ballantrae	46	44	44·7	0·0
	Wick	46	45	45·1	-1·0	ENGLAND, N.W. ..	Port Erin	50	47	48·3	-0·2
SCOTLAND, E. ..	Cromarty	43	39	40·8	-0·8		Newquay	51	50	50·7	+2·2
	Pennan Bay	43	39	41·5	-0·9	ENGLAND, S.W. ..	Scilly	52	49	50·5	—
	Aberdeen, Cove Bay	44	43	43·4	+0·1		Plymouth‡	51	49	49·9	+1·0
ENGLAND, N.E. ..	Burnmouth, Berwick	41	38	39·5	-3·4		Salcombe	50	47	49·0	-0·1
	Scarborough	45	40	42·0	-2·0	IRELAND, N.W. ..	Sheephaven	48	44	46·3	+0·5
ENGLAND, E. ..	Shipwash Lightship	48	45	46·2	+1·2		Teelin	49	42	45·3	+0·1
	Margate‡	47	44	45·1	+0·4	IRELAND, S.W. ..	Cleggan	50	45	48·3	+3·1
ENGLAND, S.E. ..	Eastbourne‡	49	47	47·9	+1·6	IRELAND, E.	Seafield	54	49	51·1	+3·9
							.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907–1911, but in some cases for 1908–1911, or 1909–1911.

Information for Stations marked **S** is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881–1905 An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTY FIRST WEEK—December 15th to December 21st, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	52	27	43·3	35·1	39·4	+ 0·7	4	− 4	26	− 5	7	+ 2	2·66	+1·46	0·2	−0·4	3	− 6
Eastern.																		
1. SCOTLAND, EAST ...	56	24	43·5	34·7	39·3	+ 2·0	4	− 3	28	−13	6	+ 3	1·15	+0·58	0·7	−0·2	10	− 4
2. ENGLAND, N.E.	56	28	47·0	37·6	42·4	+ 3·9	21	+ 13	12	−21	3	− 1	0·25	−0·24	1·6	+0·5	23	+ 7
3. ENGLAND, EAST ...	56	30	47·9	38·7	43·5	+ 5·4	24	+ 16	9	−29	3	0	0·30	−0·05	1·1	−0·3	15	− 4
4. MIDLAND COUNTIES ...	59	27	48·1	38·3	43·4	+ 5·4	25	+ 16	10	−29	4	+ 1	0·53	+0·07	1·6	+0·5	21	+ 6
5. ENGLAND, S.E.	56	31	49·0	40·8	45·1	+ 4·9	27	+ 13	3	−24	3	0	0·52	+0·04	1·7	+0·2	22	+ 3
Western.																		
6. SCOTLAND, WEST ...	53	30	46·4	38·2	42·5	+ 2·5	19	+ 8	11	−15	6	+ 2	2·01	+0·91	0·6	−0·3	9	− 4
7. ENGLAND, N.W.	58	30	49·4	40·5	45·1	+ 5·4	30	+ 17	4	−23	6	+ 3	0·87	+0·22	0·8	−0·1	13	− 2
8. ENGLAND, S.W.	56	32	49·8	41·7	45·9	+ 4·0	29	+ 11	1	−17	5	+ 1	1·07	+0·16	1·5	+0·1	19	+ 1
9. IRELAND, NORTH ...	55	31	47·2	38·8	43·2	+ 2·3	22	+ 9	9	−13	6	+ 1	1·65	+0·84	0·7	−0·5	9	− 7
10. IRELAND, SOUTH ...	57	32	50·1	40·6	45·5	+ 2·8	30	+ 8	4	−13	7	+ 3	1·24	+0·23	1·0	−0·4	14	− 6
11. ENGLISH CHANNEL ...	55	39	51·6	45·4	48·6	+ 1·6	46	+ 16	0	− 5	5	0	0·54	−0·20	1·3	−0·5	17	− 6

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 3 Weeks, December 1st to December 21st, 1912.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	33	+ 6	74	−14	19	+ 3	7·36	+3·20	0·3	−0·3	5	− 5
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	38	+ 14	94	−19	15	+ 2	2·59	+0·56	0·7	−0·3	10	− 5
2. ENGLAND, N.E.	58	19	*	*	*	*	63	+ 35	62	−27	12	+ 1	1·13	−0·49	0·7	−0·5	10	− 8
3. ENGLAND, EAST ...	58	24	*	*	*	*	73	+ 42	43	−59	13	+ 1	1·19	−0·16	0·7	−0·7	9	−10
4. MIDLAND COUNTIES ...	59	20	*	*	*	*	78	+ 45	55	−51	13	+ 2	1·70	+0·10	0·9	−0·3	12	− 4
5. ENGLAND, S.E.	56	22	*	*	*	*	100	+ 50	23	−48	13	+ 1	1·71	−0·08	1·1	−0·4	14	− 5
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	60	+ 21	45	−19	19	+ 5	4·67	+0·97	0·4	−0·6	5	− 8
7. ENGLAND, N.W.	60	8	*	*	*	*	80	+ 41	37	−33	17	+ 4	3·29	+0·95	0·5	−0·5	8	− 7
8. ENGLAND, S.W.	56	22	*	*	*	*	102	+ 39	13	−36	16	+ 2	3·48	+0·35	1·0	−0·5	13	− 6
9. IRELAND, NORTH ...	58	20	*	*	*	*	93	+ 51	24	−40	19	+ 3	4·15	+1·55	0·7	−0·6	9	− 8
10. IRELAND, SOUTH ...	58	20	*	*	*	*	110	+ 40	14	−34	21	+ 7	3·67	+0·62	1·1	−0·4	14	− 6
11. ENGLISH CHANNEL ...	55	35	*	*	*	*	135	+ 34	0	−12	18	+ 3	1·99	−0·74	1·1	−0·7	14	− 9

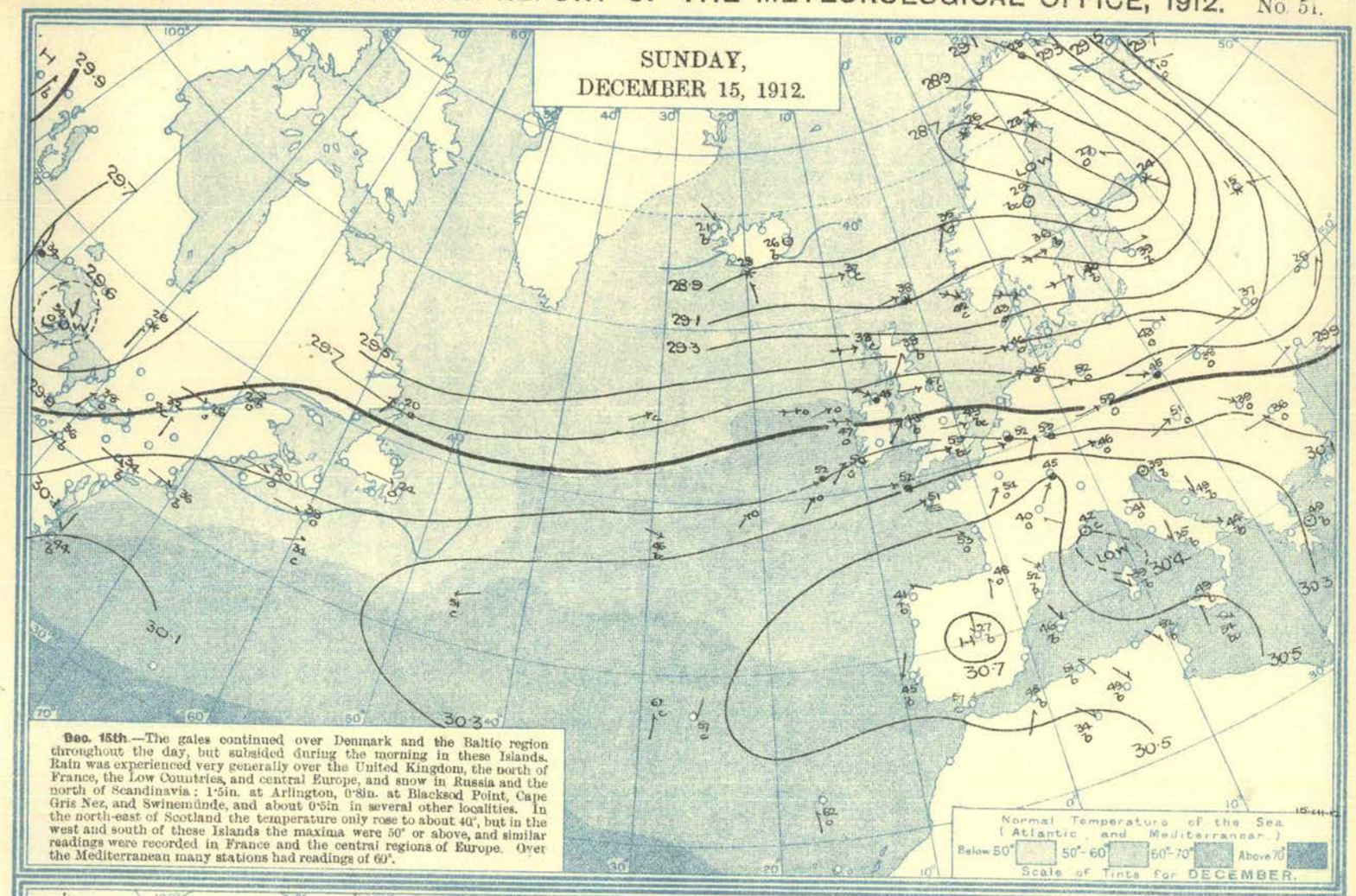
THE YEAR.—Aggregates, &c., for the Period of 51 Weeks, December 31st, 1911, to December 21st, 1912.

0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1940	−165	605	−157	244	+ 2	53·39	+ 2·22	2·8	−0·3	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2175	−172	783	−102	211	+12	32·72	+ 2·56	2·8	−0·9	23	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	2609	− 25	511	−138	202	+21	30·33	+ 5·96	3·1	−0·9	25	− 8
3 ENGLAND, EAST ...	91	14	*	*	*	*	3140	+101	397	−326	192	+17	28·48	+ 5·35	3·8	−0·6	32	− 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2883	− 70	542	−215	183	+10	33·15	+ 7·43	3·1	−0·8	26	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	3195	−122	307	−212	180	+12	30·92	+ 4·53	4·0	−0·5	33	− 4
Western.																		
6. SCOTLAND, WEST ...	83	6	*	*	*	*	2462	−111	466	−108	217	+ 8	46·00	− 1·06	3·2	−0·6	26	− 5
7. ENGLAND, N.W.	84	6	*	*	*	*	2727	− 87	391	−127	208	+15	38·68	+ 4·57	3·4	−0·5	28	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	3023	−153	243	−158	211	+18	45·63	+ 7·92	3·5	−0·8	29	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2566	−125	318	−162	212	−16	38·11	+ 0·64	3·1	−0·5	25	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	2990	−141	227	−140	242	+39	41·12	+ 1·99	3·2	−0·8	27	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3790	+ 26	44	− 81	219	+12	39·43	+ 7·04	4·5	−0·8	37	− 7

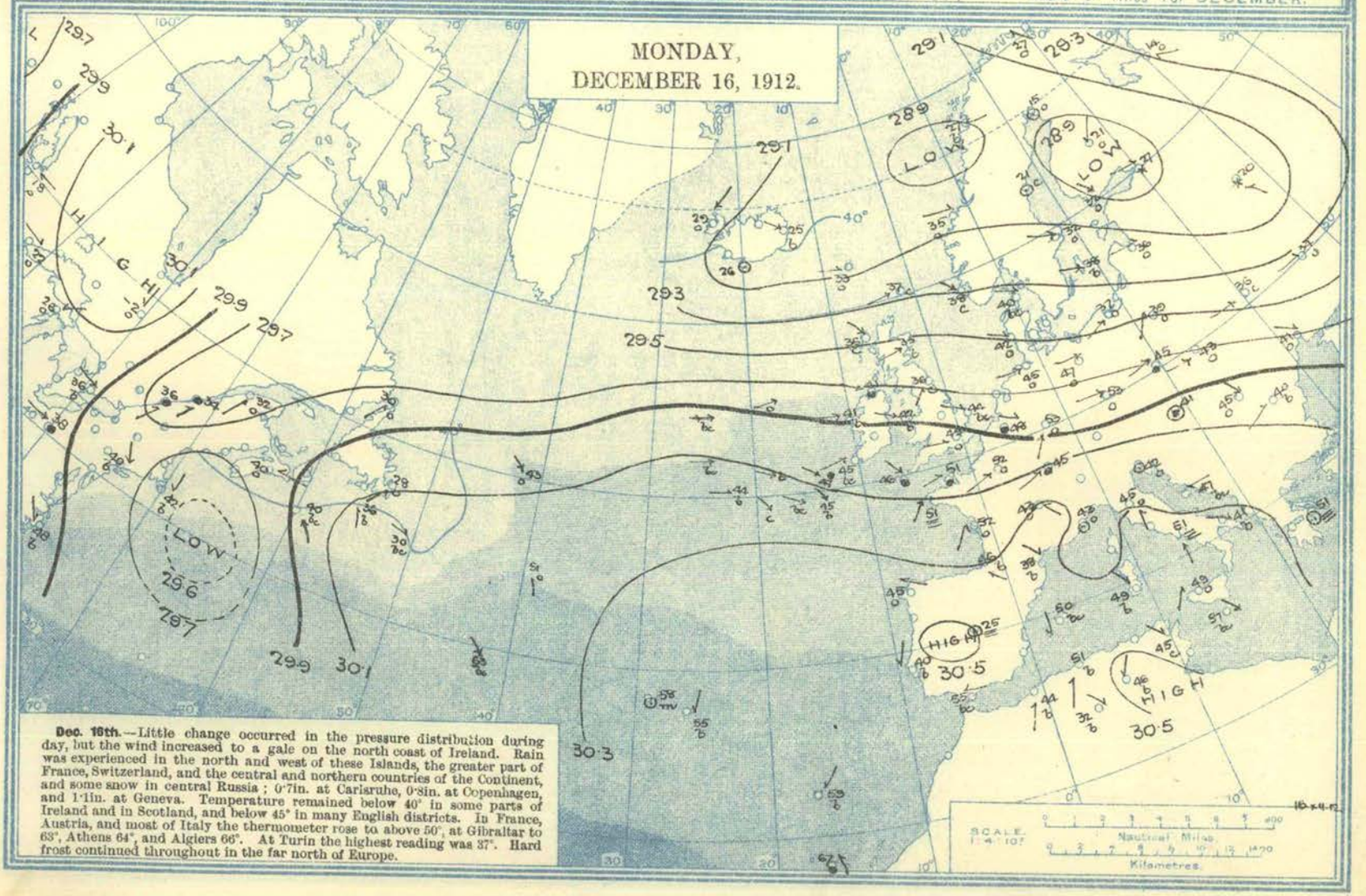
M.O., December 27, 1912.

NOTES ON TABLE IV.

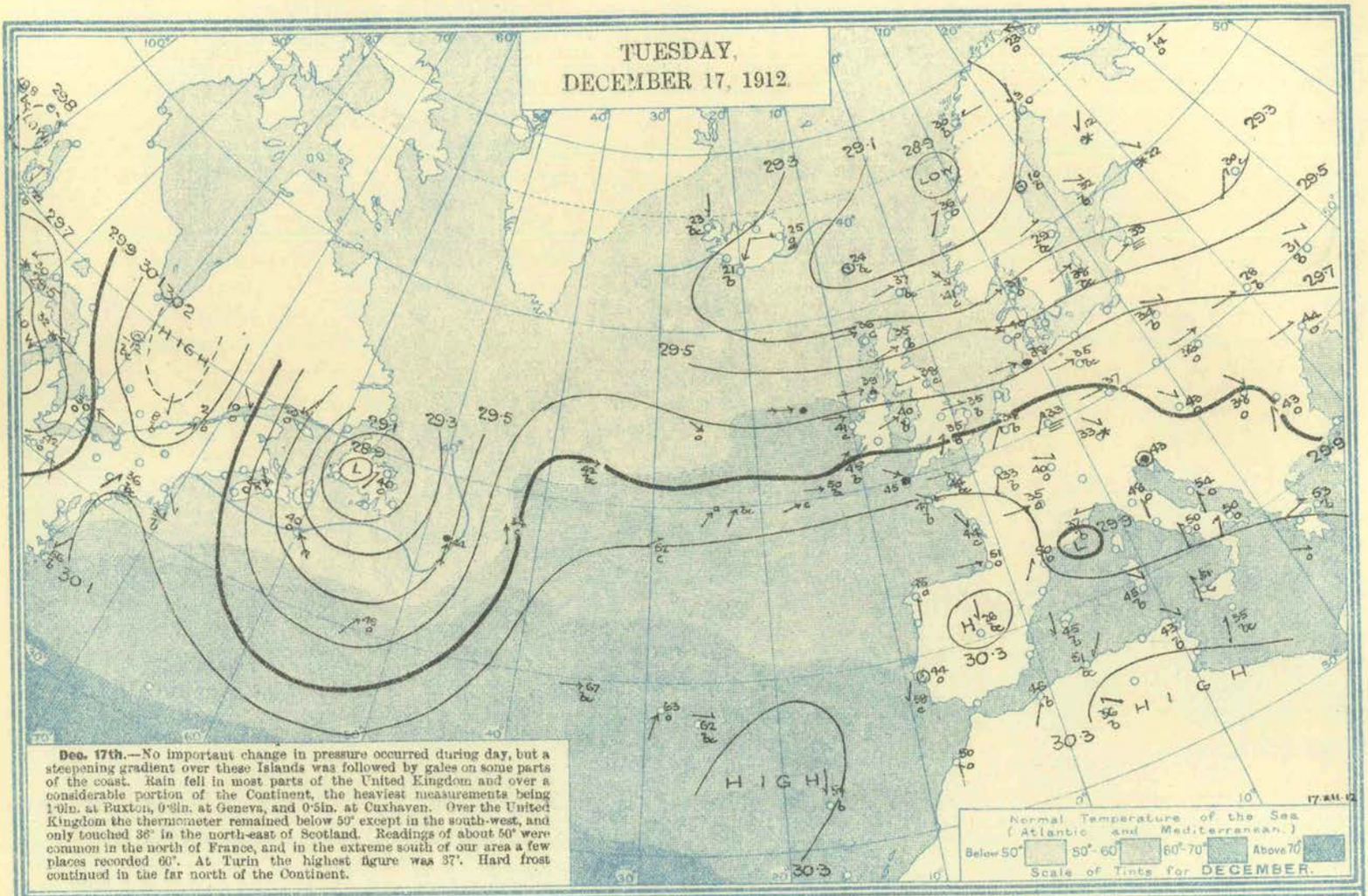
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.



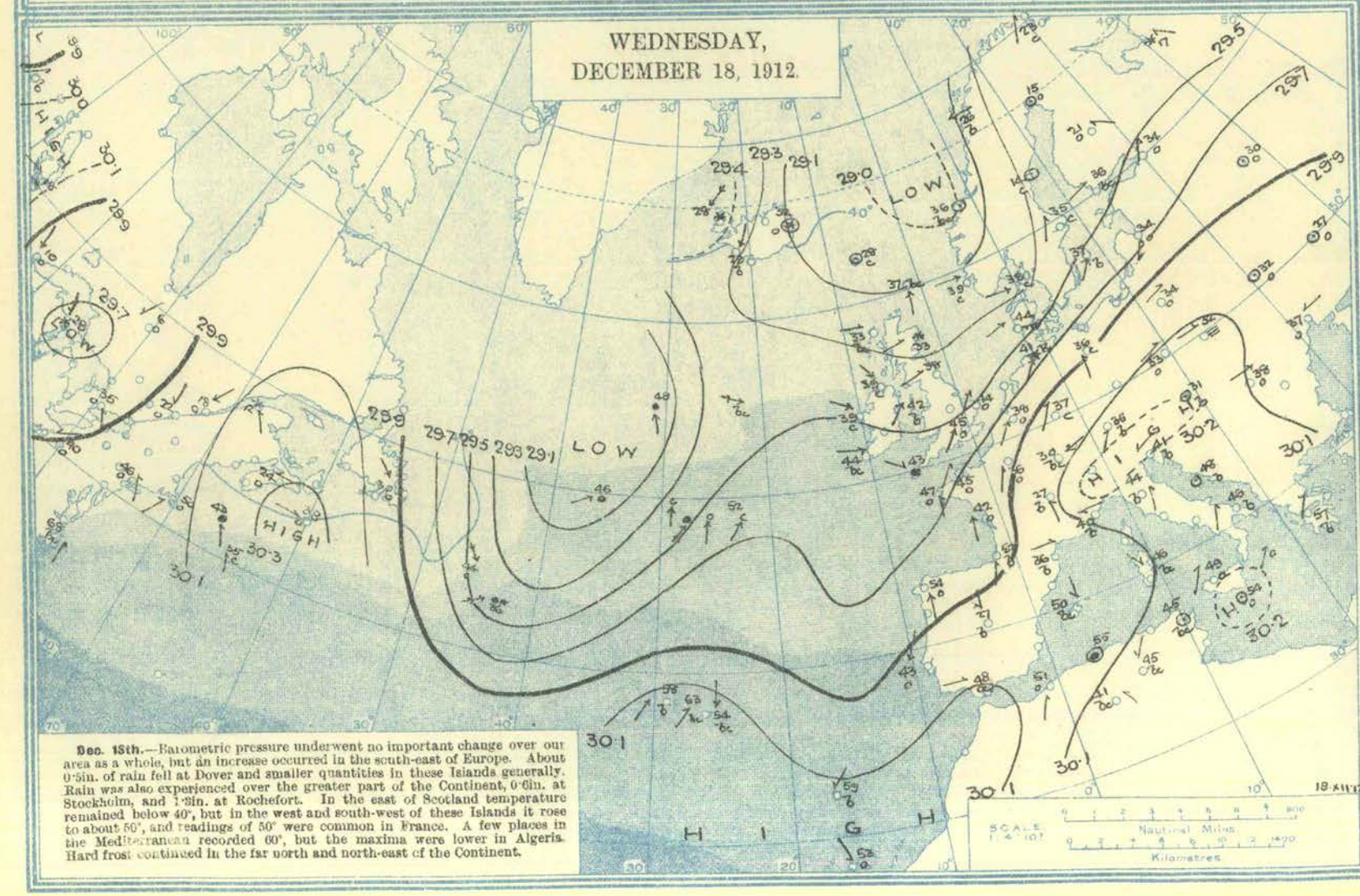
Dec. 15th.—The gales continued over Denmark and the Baltic region throughout the day, but subsided during the morning in these Islands. Rain was experienced very generally over the United Kingdom, the north of France, the Low Countries, and central Europe, and snow in Russia and the north of Scandinavia: 1·5in. at Arlington, 0·8in. at Blacksod Point, Cape Gris Nez, and Swinemünde, and about 0·5in in several other localities. In the north-east of Scotland the temperature only rose to about 40°, but in the west and south of these Islands the maxima were 50° or above, and similar readings were recorded in France and the central regions of Europe. Over the Mediterranean many stations had readings of 60°.



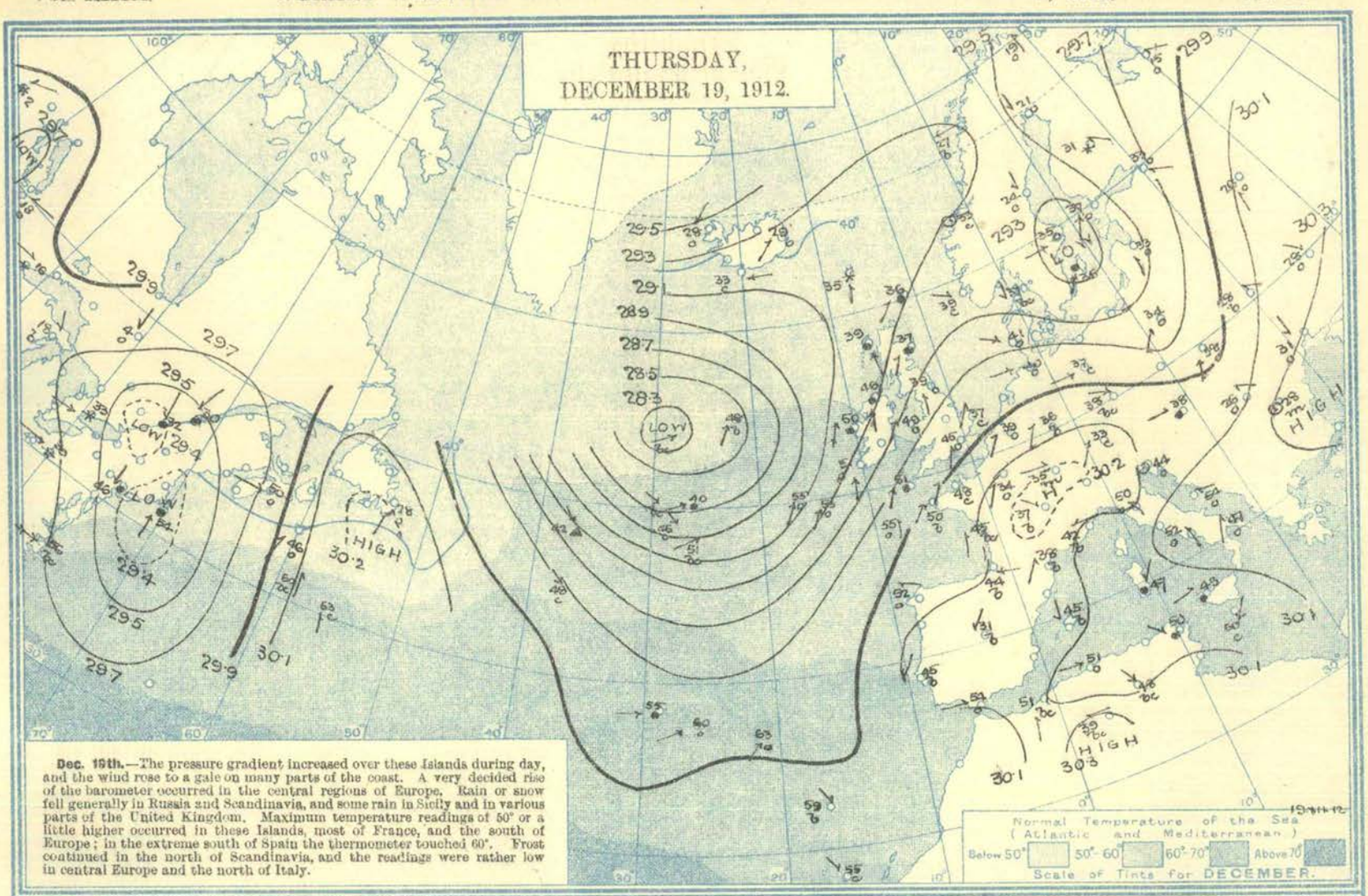
Dec. 16th.—Little change occurred in the pressure distribution during day, but the wind increased to a gale on the north coast of Ireland. Rain was experienced in the north and west of these Islands, the greater part of France, Switzerland, and the central and northern countries of the Continent, and some snow in central Russia; 0·7in. at Carlsruhe, 0·8in. at Copenhagen, and 1·1in. at Geneva. Temperature remained below 40° in some parts of Ireland and in Scotland, and below 45° in many English districts. In France, Austria, and most of Italy the thermometer rose to above 50°, at Gibraltar to 63°, Athens 64°, and Algiers 66°. At Turin the highest reading was 37°. Hard frost continued throughout in the far north of Europe.



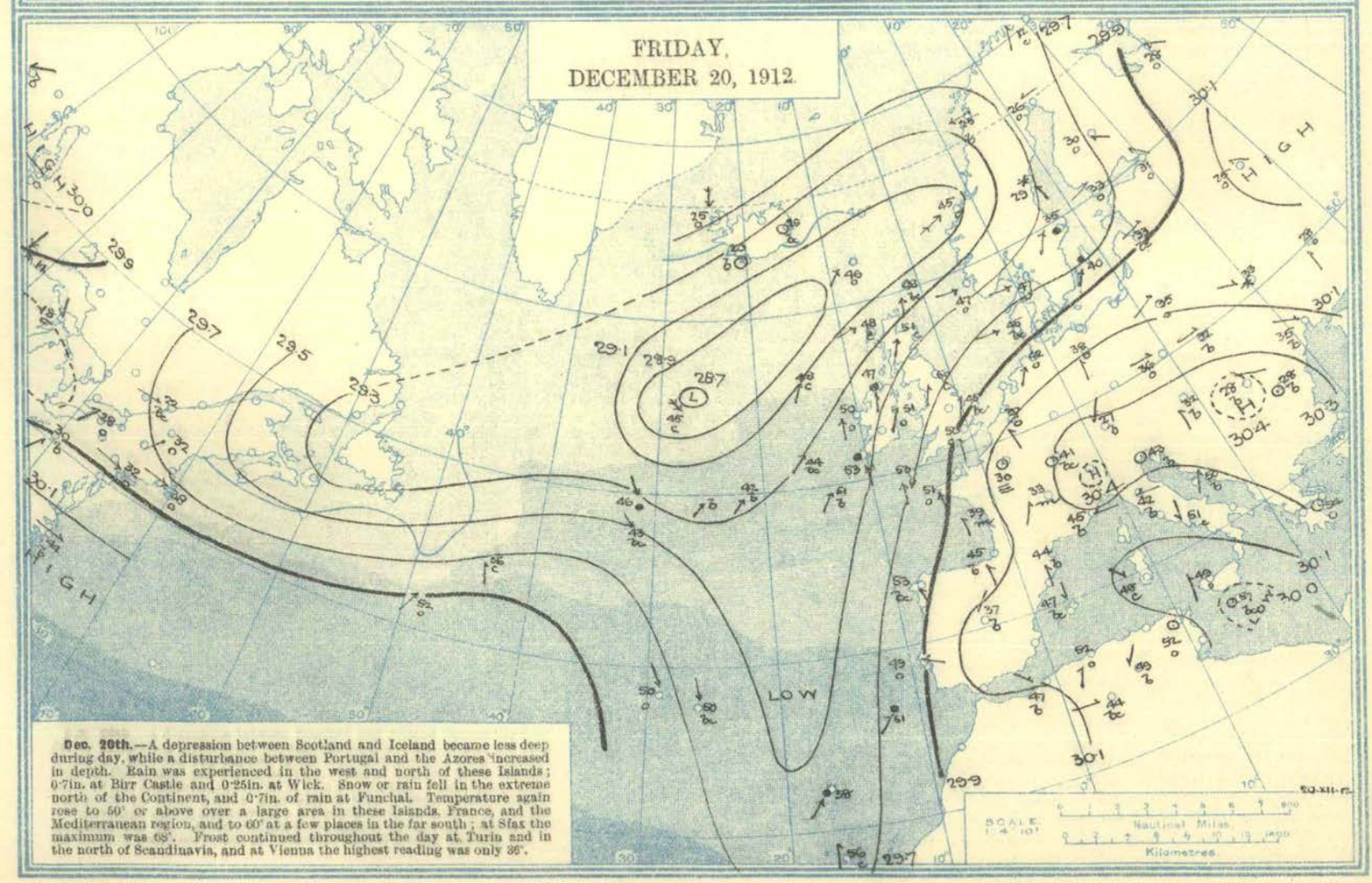
Dec. 17th.—No important change in pressure occurred during day, but a steepening gradient over these Islands was followed by gales on some parts of the coast. Rain fell in most parts of the United Kingdom and over a considerable portion of the Continent, the heaviest measurements being 1·0in. at Buxton, 0·9in. at Geneva, and 0·5in. at Cuxhaven. Over the United Kingdom the thermometer remained below 50° except in the south-west, and only touched 36° in the north-east of Scotland. Readings of about 50° were common in the north of France, and in the extreme south of our area a few places recorded 60°. At Turin the highest figure was 37°. Hard frost continued in the far north of the Continent.



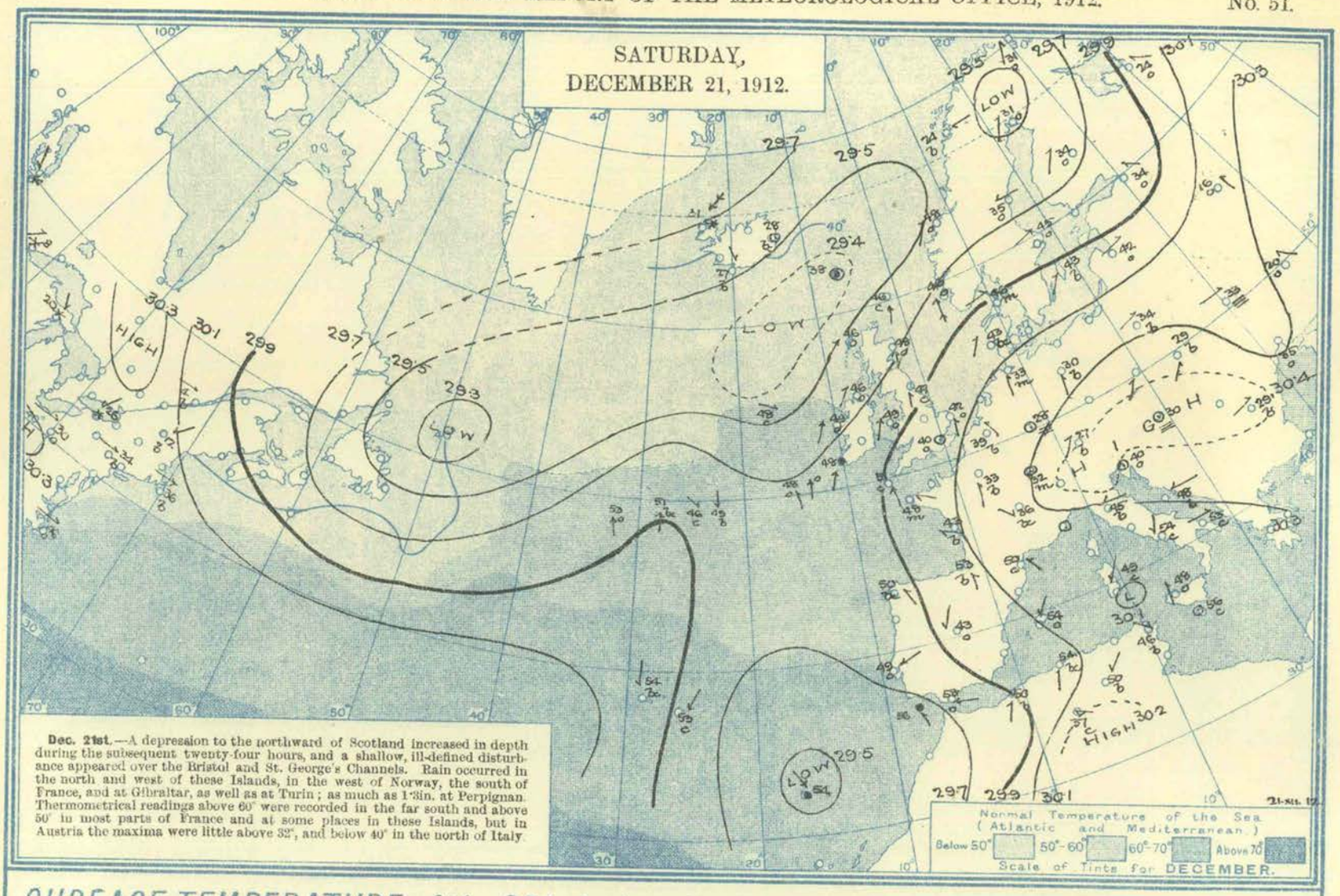
Dec. 18th.—Barometric pressure underwent no important change over our area as a whole, but an increase occurred in the south-east of Europe. About 0·5in. of rain fell at Dover and smaller quantities in these Islands generally. Rain was also experienced over the greater part of the Continent, 0·6in. at Stockholm, and 1·3in. at Rochefort. In the east of Scotland temperature remained below 40°, but in the west and south-west of these Islands it rose to about 50°, and readings of 50° were common in France. A few places in the Mediterranean recorded 60°, but the maxima were lower in Algeria. Hard frost continued in the far north and north-east of the Continent.



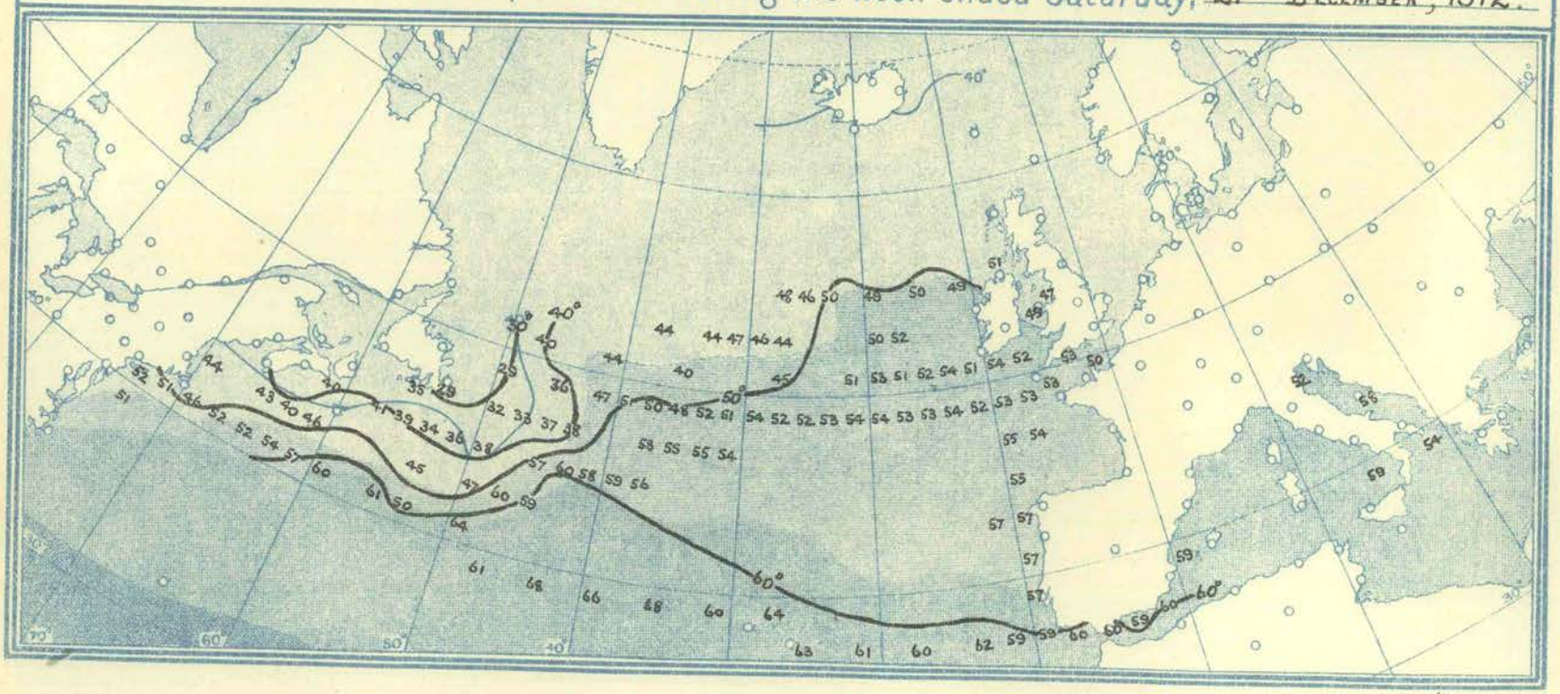
Dec. 19th.—The pressure gradient increased over these Islands during day, and the wind rose to a gale on many parts of the coast. A very decided rise of the barometer occurred in the central regions of Europe. Rain or snow fell generally in Russia and Scandinavia, and some rain in Sicily and in various parts of the United Kingdom. Maximum temperature readings of 50° or a little higher occurred in these Islands, most of France, and the south of Europe; in the extreme south of Spain the thermometer touched 60°. Frost continued in the north of Scandinavia, and the readings were rather low in central Europe and the north of Italy.



Dec. 20th.—A depression between Scotland and Iceland became less deep during day, while a disturbance between Portugal and the Azores increased in depth. Rain was experienced in the west and north of these Islands; 0·7in. at Birr Castle and 0·25in. at Wick. Snow or rain fell in the extreme north of the Continent, and 0·7in. of rain at Funchal. Temperature again rose to 50° or above over a large area in these Islands, France, and the Mediterranean region, and to 60° at a few places in the far south; at Sfax the maximum was 68°. Frost continued throughout the day at Turin and in the north of Scandinavia, and at Vienna the highest reading was only 36°.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 21ST DECEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⟿ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; ● = rain; ▲ = hail; ✳ = snow; ϟ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., *i.e.*, 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America, the Continent of Europe and Abroad of T. FISHER UNWIN, LONDON, W.C.

THIRTY-FIFTH YEAR. Vol. XXIX. (New Series.) No. 52. FIFTY-SECOND WEEK, SUNDAY, DECEMBER 22ND, TO SATURDAY, DECEMBER 28TH, 1912.

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I.—General Remarks.

Weather. The general condition was very unsettled, and at times extremely rough. Rain fell almost daily, and the sky was very cloudy or quite overcast nearly throughout. Thunder and lightning or thunder only occurred at Manchester and Harrogate on the 24th, at Newquay on the 25th, and at several places in the south-west of England on the 26th.

Temperature continued above the average, the excess being nearly 9° in England E., 8° in England S.E. and more than 7° in the Midland Counties. In Ireland and Scotland the divergence from the normal was much smaller. The highest of the maxima were recorded on the 27th or 28th, and varied from 59° in England E. and S.E. and the Midland Counties to 51° and 50° respectively in Scotland W. and N. The lowest of the minima, which occurred on rather irregular dates, but mostly between the 26th and 28th, ranged from 23° in Scotland E. and 24° in Scotland N. to 35° in England S.E. 36° in the Midland Counties and 39° in the English Channel. The lowest grass readings were 19° at Balmoral, 20° at Crathes and 22° at West Linton. The temperature of the earth both at a depth of 1 foot and four feet was above the average.

Mean Temperature of the Sea. On the south coast of Ireland the temperature of the water was higher, but generally it was very similar to that observed in the corresponding week of last year. On most parts of the coast the temperature was above the normal. The highest mean temperature for the week was 51·3 at Seafield, and this was followed by about 50° on the coasts of Devon and Cornwall, while the lowest value was about 40° at Burnmouth.

Rainfall exceeded the average, the excess being large in almost all parts of England. About 1·2 in. fell at Fort William and Poltalloch on the 24th, and 1·0 in. at Arlington on the 27th.

Bright Sunshine was below the normal in all districts. The daily mean was less than an hour except in Ireland S. (only 0·1 hour in England S.W.), and the percentage of the possible duration ranged from 13 in Scotland E. and Ireland S. to 4 in Scotland N. and England E. and to 1 in England S.W.

Barometer and Wind. A South-Westerly type of conditions was again general over these Islands and their neighbourhood, and the force of the wind was generally strong or high on all the western and north-western coasts, while it sometimes increased to a violent gale In the east the force was less, but gales and strong winds were experienced at times. The cyclonic systems that encroached on these Islands from the Atlantic were large and deep. The disturbance of the 24th caused a very general gale, but its force was much greater in the west and north than in the south and east. In the north of Scotland the gale continued on the 25th, when its direction had veered to the North-Westward. With the depression of the 26th the gale was stronger in Ireland, Wales and England than in Scotland. The force of a whole gale was reported on several parts of the coast, and the force of a storm at Portland Bill and Dungeness. At Quilty (Co. Clare) on the 24th and at Scilly on the 26th the squalls reached a velocity of 88 miles per hour and at Pendennis Castle on the morning of the 26th a gust of 98 miles per hour was recorded.

THE WEEK.

For explanation of the terms "Unusual," &c., *see* p. 207.		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Very unusual
	Rainfall ...	Heavy	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Moderate	Moderate	Very heavy	Moderate	Moderate	Very heavy
	Sunshine ...	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty

THE SEASON.

* In the column for each district the first figure (thick type) in the line for warmth denotes the number of weeks of unusual warmth, the second (small type) the number of weeks of deficient warmth.

Similarly in the line for rainfall, the first figure denotes the number of weeks of heavy rainfall, and the second the number of weeks of light rainfall, and so on for sunshine. The weeks unaccounted for were moderate weeks.

WINTER, 4 weeks from Dec. 1st, 1912.	Warmth ...	1 * 1	1 * 1	3 * 1	3 * 0	3 * 0	3 * 0	3 * 1	3 * 0	3 * 0	4 * 0	3 * 0	3 * 0
	Rainfall ...	3 * 0	3 * 1	1 * 1	1 * 0	1 * 0	1 * 0	2 * 1	1 * 1	2 * 1	2 * 0	1 * 0	1 * 1
	Sunshine ...	0 * 3	0 * 1	1 * 3	0 * 3	1 * 3	0 * 2	0 * 3	0 * 1	0 * 3	0 * 2	0 * 3	0 * 4

PAST SEASONS.

WINTER, 1911–12. Dec. 3rd–March 2nd. 13 weeks.	Warmth ...	4 * 2	4 * 3	5 * 3	6 * 1	6 * 3	6 * 2	5 * 4	6 * 3	6 * 1	7 * 3	5 * 4	9 * 1
	Rainfall ...	4 * 5	6 * 0	6 * 1	8 * 0	7 * 1	9 * 1	8 * 2	7 * 2	7 * 1	6 * 3	8 * 2	8 * 1
	Sunshine ...	4 * 2	3 * 5	2 * 4	3 * 9	3 * 7	2 *10	3 * 6	4 * 4	2 * 6	5 * 3	2 * 4	2 * 5
SPRING, 1912. Mar. 3rd–June 1st. 13 weeks.	Warmth ...	6 * 2	7 * 2	8 * 1	8 * 0	8 * 1	7 * 1	6 * 2	7 * 1	7 * 2	7 * 2	7 * 2	8 * 0
	Rainfall ...	5 * 5	4 * 4	4 * 7	2 * 5	4 * 7	2 * 5	2 * 5	4 * 4	3 * 4	2 * 4	3 * 4	4 * 4
	Sunshine ...	4 * 3	4 * 3	2 * 7	3 * 4	3 * 5	6 * 3	3 * 2	5 * 4	3 * 4	2 * 6	3 * 4	4 * 5
SUMMER, 1912. June 2nd–Aug. 31st. 13 weeks.	Warmth ...	0 * 7	0 * 8	2 * 7	4 * 5	3 * 7	3 * 7	2 * 6	2 * 7	1 * 8	0 * 8	0 * 9	2 * 7
	Rainfall ...	4 * 2	5 * 1	10 * 0	7 * 1	8 * 2	8 * 3	7 * 3	9 * 2	9 * 1	7 * 2	7 * 3	8 * 2
	Sunshine ...	1 * 7	0 *12	0 *11	2 * 7	0 * 9	0 * 8	1 * 8	1 *10	1 *10	1 * 9	1 *11	0 * 9
AUTUMN, 1912. Sept. 1st–Nov. 30th. 13 weeks.	Warmth ..	1 * 7	3 * 5	3 * 5	0 * 5	3 * 4	0 * 7	3 * 6	3 * 7	2 * 5	4 * 5	3 * 4	1 * 6
	Rainfall ...	5 * 5	6 * 4	4 * 5	6 * 6	3 * 8	4 * 9	2 * 6	2 * 5	4 * 8	2 * 6	2 * 8	4 * 7
	Sunshine ...	3 * 8	4 * 8	2 * 4	2 * 6	1 * 5	3 * 5	1 * 5	5 * 5	4 * 6	3 * 5	1 * 5	4 * 6

(27844—24.) Wt. 173—814. 450. 1/13. D & S. Gp. 30. Sch. 13.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.					Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Highest observed.	Date.	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Below 42°	Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	
	°		°		°	°	°	°	Day °	Day °	°	°	°	°	°	°		In.	In.	Hr.	Hr.	%	%	
0. SCOTLAND, N.																								
p Baltasound .. S	*47*	*28th*	*31*	*23rd*	*44·4*	*36·7*	*40·7*	—	7	*21*	•	•	38·8	•	•	•	*7*	*0·33*	—	*0·0*	—	*0*	—	*Baltasound.*
a, Islands .. *a* Lerwick	47	28th	34	24th	44·6	38·1	41·5	+ 1·6	7	17	•	•	•	•	•	•	6	0·84	—	0·3	- 0·6	5	- 9	Deerness.
a Stornoway	48	27th	32	26th	45·0	37·0	41·2	+ 1·6	8	21	•	•	•	•	•	•	7	1·61	+ 0·21	0·1	- 0·7	2	-11	Stornoway.
a Castlebay, Barra Isd. .																	—	—	—	•	•	•	•	*Castlebay.*
a Wick	46	28th	31	27th	43·9	35·1	39·7	+ 1·1	5	27	•	•	•	•	•	•	5	1·18	+ 0·53	•	•	•	•	
b, Main- *p* Strathpeffer ..	45	25, 28	28	27th	43·1	32·1	37·8	+ 0·7	3	37	•	•	•	•	•	•	6	0·90	+ 0·14	0·4	- 0·6	6	- 9	Strathpeffer.
land. *p* Glencarron ..	47	28th	29	27th	44·9	34·2	39·6	+ 2·7	8	30	•	•	•	•	•	•	6	3·10	+ 0·73	•	•	•	•	
p Fort Augustus ..	48	28th	24	27th	44·7	35·4	40·2	+ 2·0	8	26	•	•	•	•	•	•	6	2·17	+ 0·87	0·2	- 0·2	3	- 3	Fort Augustus.
p Fort William ..	50	28th	27	27th	45·4	35·7	40·7	+ 0·9	10	25	•	•	•	•	•	•	6	3·14	+ 0·90	•	•	•	•	
1. SCOTLAND, E.																								
p Gordon Castle .. S	49	28th	31	28th	44·9	35·3	40·3	+ 2·0	8	27	4	20	37·3	- 0·1	40·0	+0·3	—	—	—	1·2	—	18	—	Crathes S.
a Nairn	47	28th	26	28th	43·1	32·1	37·8	+ 0·3	3	37	•	•	•	•	•	•	4	0·56	- 0·04	*1·2*	—	*19*	—	*Gordon Castle.*
a Aberdeen ..	49	28th	31	23, 27, 28	44·7	34·4	39·8	+ 1·7	8	30	•	•	•	•	41·2	- 0·6	5	0·66	+ 0·17	0·5	—	8	—	Nairn.
a Balmoral ..	46	28th	23	27th	43·0	30·0	36·8	+ 2·4	3	45	5	19	•	•	•	•	2	0·48	- 0·14	1·2	0·0	19	0	Aberdeen.
p Crieff	48	28th	28	27th	43·1	34·9	39·2	+ 1·7	3	27	•	•	•	•	•	•	5	1·21	+ 0·50	•	•	•	•	Balmoral.
a Leith	53	27th	30	28th	48·4	36·4	42·6	+ 3·3	28	16	•	•	•	•	•	•	6	1·77	+ 0·84	0·6	—	9	—	Balruddery.
p West Linton .. S	49	28th	28	27th	44·4	33·4	39·1	+ 2·5	7	33	4	22	•	•	•	•	3	0·40	0·00	•	•	•	•	
p Marchmont .. S	49	28th	30	27th	43·4	34·1	38·9	+ 2·3	4	30	3	26	38·4	+1·4	•	•	6	0·75	+ 0·18	*0·5*	—	*7*	—	*West Linton.*
																	6	0·75	+ 0·18	0·7	- 0·5	10	- 8	Marchmont.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	51	27th	29	27, 28	47·3	35·4	41·6	+ 2·9	15	29	3	26	38·3	+0·7	41·9	+1·1	6	0·62	+ 0·02	1·3	—	19	•	Cockle Park.
a Shields	52	28th	35	23rd	48·4	36·9	42·9	+ 3·8	28	14	•	•	•	•	•	•	4	0·61	+ 0·19	•	•	•	•	*Newcastle.*
p Durham	51	28th	27	24th	46·6	33·9	40·5	+ 2·8	13	33	2	29	•	•	•	•	3	0·51	+ 0·11	1·2	- 0·2	17	- 2	Durham.
a, North .. *p* Rounton	51	28th	31	23rd	47·0	36·4	41·9	+ 4·4	14	25	6	26	39·4	•	•	•	4	0·57	+ 0·15	•	•	•	•	Rounton.
a West Witton	*52*	*27th*	*33*	*23, 26*	*46·7*	*36·4*	*41·8*	—	*13*	*25*	1	29	40·5	•	42·5	•	*6*	*1·36*	—	•	•	•	•	*West Witton.*
p Scarborough ..	52	28th	36	26th	46·7	39·2	43·1	+ 3·9	19	8	•	•	•	•	43·0†	•	3	0·51	+ 0·03	0·6	—	9	—	Scarborough.
p York	53	28th	35	23rd	47·9	39·0	43·6	+ 5·4	24	8	•	•	41·9	+1·6	44·2	+0·5	6	0·58	+ 0·16	0·0	- 0·8	0	-11	York.
a Spurn Head ..	52	27th	38	26th	47·9	40·3	44·3	+ 4·7	23	5	3	30	41·3	+2·0	45·0	+0·8	7	1·09	+ 0·72	*0·0*	—	*0*	—	*Hull.*
b South .. *a* Lincoln	55	27th	36	26th	49·7	39·9	45·0	+ 7·4	30	6	•	•	40·8	+0·9	44·0	+0·2	7	1·07	+ 0·66	•	•	•	•	Lincoln.
a Fulbeck	55	27th	36	26th	49·9	39·9	45·1	+ 7·6	31	6	2	30	42·6	+2·5	45·2	+0·6	6	1·18	+ 0·73	0·2	—	3	—	Rauceby.
											•	•	•	•	•	•	—	—	—	0·1	—	1	—	Skegness.
3. ENGLAND, E.											0	32	42·7	+2·4	45·4	+1·1	—	—	—	*0·4*	—	*5*	—	*Lowestoft.*
p Cromer											•	•	•	•	•	•	—	—	—	0·3	—	4	—	Cromer.
p Little Massingham ..	*53*	*28th*	*36*	*26th*	*48·3*	*40·5*	*44·6*	+ 7·1	*25*	*4*	0	32	•	•	•	•	*7*	*1·71*	—	*0·1*	—	*1*	—	*Little Massingham.*
a, North .. *a* Yarmouth	55	27, 28	38	27th	50·1	40·4	45·4	+ 7·1	31	4	•	•	42·7	+2·9	46·0	+1·6	7	1·51	+ 1·06	0·4	—	5	—	Yarmouth.
a Norwich	55	27, 28	36	26th	50·4	40·0	45·4	+ 7·2	32	6	0	35	42·4	•	•	•	7	1·18	—	*0·4*	—	*5*	—	*Norwich.*
p Geldeston	55	28th	37	26th	50·0	42·0	46·2	+ 8·0	29	0	•	•	•	•	•	•	7	0·87	+ 0·44	0·5	- 1·1	7	-14	Geldeston.
p Cambridge	59	27th	37	26th	52·1	40·4	46·5	+ 8·6	38	4	0	31	43·5	+3·1	46·1	+1·4	7	1·19	+ 0·86	0·5	- 0·9	7	-12	Cambridge.
p Felixstowe	*54*	*28th*	*40*	*26, 27*	*50·1*	*42·0*	*46·2*	+ 7·0	*29*	*0*	•	•	•	•	•	•	*7*	*0·85*	—	*0·5*	—	*7*	—	*Felixstowe.*
a Clacton-on-Sea ..	53	27th	41	26, 27, 28	49·9	42·3	46·3	+ 7·4	30	0	0	35	44·4	+2·1	46·8	+0·1	7	0·85	—	0·3	—	4	—	Clacton.
b, South .. *a* Rothamsted	56	27th	37	26, 27	51·7	39·3	45·8	+ 8·0	38	8	•	•	•	•	•	•	7	1·81	+ 1·29	0·1	- 1·3	1	-17	Rothamsted.
a Shoeburyness	*56*	*27th*	*41*	*26, 27, 28*	*52·0*	*42·1*	*47·3*	+ 8·2	*37*	*0*	2	28	45·0	+3·1	•	•	*7*	*0·72*	*0·41*	*0·2*	—	*3*	—	*Southend.*
p Tottenham	56	28th	41	26, 27	51·4	44·3	48·0	+ 8·8	42	0	0	33	•	•	47·4	+1·3	7	1·44	—	0·1	—	1	—	Tottenham.
4. MIDLAND COUNTIES.																								
a Harrogate	52	27th	33	23rd	46·6	37·9	42·4	+ 4·8	20	11	0	31	41·3	+1·6	43·8	+1·0	—	—	—	*0·2*	—	*3*	—	*Huddersfield.*
a Bawtry	52	28th	35	26th	48·1	38·3	43·4	+ 5·4	25	10	3	25	41·2	+1·0	42·8	+1·0	5	0·72	+ 0·15	0·5	—	7	—	Harrogate.
p Buxton	*51*	*28th*	*35*	*26th*	*46·3*	*38·6*	*42·6*	+ 6·7	*18*	*10*	3	28	41·9	•	43·9	•	7	0·63	+ 0·22	0·0	- 1·0	0	-14	Worksop.
a East .. *a* Nottingham	56	27th	36	26th	50·4	39·3	45·1	+ 6·7	*18*	*10*	3	29	41·4	+2·1	44·6	+0·8	*6*	*1·12*	*- 0·03*	*0·0*	—	*0*	—	*Buxton.*
p Birmingham, Edgbsn.	53	28th	37	26th	48·7	40·7	44·9	+ 6·8	26	4	1	30	42·1	+2·9	43·6	+1·2	7	1·34	+ 0·38	0·1	—	1	—	Nottingham.
a Raunds	55	27th	36	26, 27, 28	51·4	39·3	45·6	+ 7·9	37	8	3	28	44·1	+2·5	46·4	+0·7	7	1·41	+ 0·91	0·1	—	1	—	Birmingham.
a Oxford	56	27th	38	26th	52·0	41·4	46·9	+ 7·8	37	2	1	30	43·3	•	47·4	•	7	2·06	—	•	•	•	•	Raunds.
											1	30	•	•	•	•	7	1·97	+ 0·53	1·0	- 0·4	13	- 5	Oxford.
a Cheadle	52	27th	34	24th	47·1	35·9	41·7	+ 4·4	14	26	1	30	42·0	+2·3	44·3	+0·6	—	—	—	0·1	—	1	—	Sheffield.
p Shrewsbury	56	28th	37	23, 26, 27	51·0	38·6	45·1	+ 5·1	36	10	2	29	•	•	•	•	6	0·94	+ 0·30	•	•	•	•	Cheadle.
b, West .. *a* Hereford	54	27th	38	24, 27	49·4	40·3	45·0	+ 6·2	28	5	3	30	•	•	•	•	6	0·79	—	•	•	•	•	Shrewsbury.
a Cirencester	54	27th	34	26th	50·1	38·4	44·5	+ 6·4	33	10	0	32	•	•	•	•	5	1·36	+ 0·85	•	•	•	•	Hereford.
a Bath	59	27th	37	26th	53·9	40·1	47·3	+ 7·2	45	5	0	32	44·2	•	45·8	•	7	2·38	+ 1·81	0·9	- 0·4	12	- 6	Cirencester.
											•	•	•	•	•	•	7	2·62	+ 1·98	1·1	—	15	—	Bath.
5. ENGLAND, S.E.																								
p Kew	55	28th	39	27th	51·7	44·6	48·3	+ 9·1	44	0	1	29	44·9	+2·7	48·0	+1·9	—	—	—	•	•	•	•	Canterbury
a Marlborough	54	27th	38	26, 27	50·4	40·9	45·8	+ 7·8	31	3	3	29	45·0	+3·6	47·0	+1·3	7	1·45	+ 1·04	0·3	- 0·9	4	-12	Kew.
a Margate	59	28th	38	26th	52·7	42·7	47·9	+ 7·8	41	0	1	30	•	•	47·0	•	7	2·68	+ 2·04	0·7	- 0·5	9	- 7	Marlborough.
a Wisley, Surrey ..	56	27th	39	27th	52·4	42·4	47·6	+ 8·1	39	0	0	•	46·7	+4·4	48·6	+3·7	4	0·49	+ 0·06	0·4	- 1·1	5	-14	Margate.
a Swarraton	54	27th	35	26th	51·0	41·1	46·3	+ 7·9	34	3	0	32	44·7	+3·4	46·4	+1·3	7	1·44	—	0·4	—	5	—	Wisley
a Tunbridge Wells ..	53	27, 28	37	26th	50·3	40·9	45·8	+ 7·6	31	3	0	32	46·1	+4·1	48·0	+1·5	7	2·24	+ 1·59	0·3	—	4	—	Worthing.
a Dungeness	53	27, 28	42	28th	51·3	45·0	48·3	+ 7·7	44	0	1	30	43·9	+2·9	•	•	7	1·93	+ 1·32	0·1	- 1·3	1	-17	Tunbridge Wells.
p Hastings	52	26, 27, 28	41	27th	50·7	45·0	48·0	+ 7·4	42	0	0	•	•	•	•	•	4	1·12	+ 0·65	0·6	—	8	—	Littlestone.
p Southampton	54	27, 28	40	26th	52·3	45·0	48·8	+ 7·9	48	0	0	37	45·3	•	47·0	•	7	1·50	+ 0·91	*0·8*	*- 1·0*	*10*	*-13*	*Hastings.*
a Ventnor	55	27, 28	44	26, 27	51·6	45·9	48·9	+ 6·1	48	0	0	31	•	•	•	•	7	1·68	+ 1·04	0·1	- 1·4	1	-19	Southampton
											•	•	•	•	•	•	7	1·16	+ 0·55	0·3	- 1·3	4	-17	Ventnor.
											0	36	47·0	+3·6	48·2	+0·9	—	—	—	*0·2*	—	*3*	—	*Portsmouth.*
											•	•	46·0	•	48·6	•	—	—	—	0·8	- 0·9	10	-12	Eastbourne.
LONDON.											•	•	46·2	•	47·0	•	—	—	—	*0·2*	—	*3*	—	*Bournemouth.*
a Westminster	*57*	*27th*	*40*	*26, 27*	*53·7*	*43·7*	*48·9*	+ 9·3	*48*	*0*	0	38	•	•	47·0	•	—	—	—	*0·1*	*- 1·5*	*1*	*-19*	*Brighton.*
a Greenwich	*56*	*27th*	*38*	*27th*	*52·6*	*41·4*	*47·2*	+ 7·6	*39*	*2*	1	35	•	•	•	•	*7*	*1·43*	*+ 1·02*	*0·2*	*- 0·3*	*3*	*- 3*	*Westminster.*
a Hampstead	*54*	*27th*	*34*	*28th*	*49·9*	*40·9*	*45·6*	—	*30*	*3*	1	30	•	•	•	•	*7*	*1·30*	*+ 0·90*	*0·6*	*- 0·5*	*8*	*- 7*	*Greenwich.*
a Camden Square ..	*56*	*27, 28*	*38*	*27th*	*52·6*	*42·4*	*47·7*	—	*40*	*0*	2	28	•	•	•	•	*7*	*1·42*	—	*0·2*	—	*3*	—	*Hampstead.*
											0	33	•	•	•	•	*7*	*1·47*	—	*0·2*	—	*3*	—	*Camden Square*
6. *a*, SCOTLAND, W.																								
a Poltalloch .. S	48	27th	29	27th	45·6	37·3	41·6	+ 1·9	10	20	•	•	•	•	•	•	6	2·56	+ 1·36	•	•	•	•	
p Glasgow	50	27, 28	32	27th	46·6	38·6	42·8	+ 3·7	20	10	1	25	•	•	•	•	5	1·01	+ 0·16	0·0	- 0·5	0	- 8	Glasgow.
p Rothesay .. S	50	28th	30	27th	47·1	37·0	42·3	+ 2·3	23	14	•	•	•	•	44·0	+0·4	7	1·71	+ 0·62	•	•	•	•	
a Kilmarnock ..	51	27th	30	27th	46·9	36·9	42·1	+ 2·1	22	14	•	•	•	•	•	•	5	0·75	—	*0·3*	—	*4*	—	*Kilmarnock.*
a Colmonell ..	51	27th	30	27th	47·3	37·3	42·5	+ 1·6	23	13	2	24	•	•	•	•	—	—	—	•	•	•	•	
p Dumfries ..	50	28th	30	27th	47·0	36·9	42·2	+ 3·6	23	14	3	24	41·4	•	43·3	•	7	0·97	+ 0·13	*0·5*	—	*7*	—	*Dumfries.*
p Cally, Gatehouse S	50	28th	28	27th	47·9	36·6	42·5	+ 3·7	26	15	•	•	•	•	•	•	6	0·93	- 0·23	•	•	•	•	
b I. OF MAN																								
p Douglas	51	27th	34	27th	48·6	40·1	44·5	+ 2·8	25	5	1	28	•	•	•	•	6	1·05	+ 0·05	0·9	- 0·5	13	- 6	Douglas.
											1	30	41·0	+1·1	43·7	+0·8	—	—	—	*0·1*	—	*1*	—	*Burnley.*
7. *a*, ENGLAND, N.W.											1	29	•	•	•	•	—	—	—	0·8	—	11	—	Hoylake.
p Aspatria	51	24, 27	34	27th	47·7	39·3	43·7	+ 5·2	23	8	1	24	43·4	•	45·6	•	6	1·10	+ 0·30	0·4	—	6	—	Aspatria.
p Newton Rigg ..	50	28th	33	27th	46·4	38·0	42·4	+ 5·5	20	11	6	23	41·7	+1·9	43·1	+0·9	6	1·41	+ 0·57	0·6	- 0·5	9	- 7	Newton Rigg.
p Stonyhurst	52	28th	36	28th	47·6	38·0	43·0	+ 4·8	24	11	1	29	•	•	•	•	7	0·60	- 0·38	0·0	- 0·9	0	-12	Stonyhurst.
p Blackpool	51	24, 27, 28	38	23, 26, 27	48·7	38·7	43·9	+ 4·5	27	9	1	28	43·3	•	46·2	•	7	0·70	+ 0·05	0·7	- 0·3	10	- 4	Blackpool.
p Manchester (Whit. Pk.)	*53*	*27, 28*	*38*	*26, 27, 28*	*49·6*	*40·1*	*45·0*	—	*29*	*5*	4	29	•	•	•	•	*5*	*0·70*	—	*0·1*	—	*1*	—	*Whit. Park.*
a Liverpool (Bidston) ..	53	27th	38	23rd	49·4	40·1	44·9	+ 4·5	28	5	•	•	•	•	•	•	6	0·56	+ 0·04	0·7	—	*10*	—	*Liverpool.*
a Hawarden Bridge ..	55	27th	36	27th	50·3	39·9	45·3	+ 4·6	32	6	3	28	40·9	+1·6	43·7	+1·3	6	0·49	+ 0·04	*0·6*	*0·4*	*8*	*- 6*	*Southport.*
b, NORTH WALES.											0	36	42·2	+1·9	45·2	+0·7	—	—	—	*0·0*	—	*0*	—	*Manchester (City).*
p Llandudno	56	27th	37	23rd	50·7	41·3	46·2	+ 3·9	32	2	•	•	•	•	•	•	5	0·60	- 0·01	0·9	- 0·4	12	- 5	Llandudno.
a Holyhead	52	25, 27	41	27th	50·1	43·4	46·9	+ 4·4	34	0	•	•	•	•	•	•	6	0·73	- 0·07	0·2	—	3	—	Aberdovey.
p Bettws-y-Coed ..	53	24th	38	26, 28	49·9	40·7	45·5	+ 3·7	30	4	0	35	44·6	+2·9	46·3	+1·4	6	1·92	—	0·6	—	8	—	Bettws-y-Coed.

For notes see opposite page.

† At 3 feet.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Temperature. In Degrees Fahrenheit.																Rainfall.			Bright Sunshine. Hours per Day.				
	Highest observed.	Date	Lowest observed.	Date.	Mean for the Week. Of Highest each day.	Mean for the Week. Of Lowest each day.	Mean for the Week. For whole of each day.	Difference of Mean for the Week from Aver'ge	Accumulated Heat for the Week (in Day degrees). Above 42°	Accumulated Heat for the Week (in Day degrees). Below 42°	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average.	Percentage of possible duration.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	°		°		°	°	°	°	Day°	Day°	°	°	°	°	°	°	*	In.	In.	Hr.	Hr.	%	%	
8. *a*, SOUTH WALES.																				0·3	—	4	—	Aberystwyth.
a Llangammarch Wells	53	27th	33	23rd	49·6	37·1	43·6	+ 5·6	32	14	0	31	43·9	+1·7	46·8	+0·7	7	2·64	—	0·0	—	0	—	Llangammarch
a Pembroke	54	25, 26	41	27th	52·9	45·0	49·1	+ 5·2	50	0	*	*	°	*	°	*	6	1·91	+ 1·04	0·0	- 1·5	0	-19	Pembroke.[Wells
p Cardiff	55	28th	39	25th	51·4	41·6	46·7	+ 7·1	35	1	0	34	44·7	+2·9	46·8	+1·7	7	2·60	+ 1·63	*0·2*	—	*3*	—	*Cardiff.*
b, ENGLAND, S.W.																								
a Clifton	57	27th	37	26th	52·3	42·0	47·4	+ 6·9	38	0	0	34	*	*	*	*	7	2·93	+ 0·19	*0·8*	—	*11*	—	*Clifton.*
a Shaftesbury	52	27, 28	37	26th	49·9	40·7	45·5	+ 6·8	30	4	*	*	44·7	*	46·5	*	7	2·18	+ 1·48	*	*	*	*	Shaftesbury.
a Arlington	54	27th	38	26th	49·7	41·1	45·6	+ 5·4	29	3	*	*	48·0	*	*	*	7	3·17	+ 1·85	0·0	- 1·6	0	-20	Newquay.
a Cullompton	56	27th	37	26th	52·6	41·7	47·4	+ 7·0	39	1	1	30	46·4	*	*	*	7	2·32	+ 1·47	0·0	- 1·3	0	-16	Cullompton.
a Portland	54	27th	47	26, 27, 28	52·4	47·9	50·2	+ 7·3	57	0	*	*	*	*	*	*	7	2·00	—	*0·3*	—	*4*	—	*Weymouth.*
p Plymouth	54	24, 27, 28	41	26th	52·7	46·2	49·6	+ 6·4	53	0	*	*	48·2	+3·3	*	*	7	2·70	+ 1·75	0·0	- 1·6	0	-20	Plymouth.
p Falmouth	54	27, 28	42	26th	52·0	45·9	49·1	+ 4·7	50	0	*	*	*	*	*	*	7	3·42	+ 2·15	0·1	- 1·7	1	-21	Falmouth.
9. IRELAND. N.																								
a, West .. *a* Malin Head	50	27th	35	27th	46·3	38·1	42·4	+ 0·9	19	11	*	*	*	*	*	*	6	0·52	- 0·16	*	*	*	*	* *
a Blacksod Point ..	52	27th	40	27th	48·6	41·6	45·2	+ 2·0	24	1	*	*	*	*	*	*	6	1·79	+ 0·53	*	*	*	*	* *
p Markree Castle ..	53	27th	29	27th	48·3	34·0	41·4	+ 1·3	18	34	3	23	42·8	*	46·5	*	7	1·67	+ 0·69	0·9	- 0·2	13	- 3	Markree Castle.
a Birr Castle	56	27th	35	27th	48·3	37·4	43·1	+ 2·9	27	13	*	*	*	*	*	*	7	1·09	+ 0·41	*0·7*	- *0·7*	*10*	- *9*	*Birr Castle.*
b, East .. *p* Armagh	52	27th	30	27th	48·0	36·7	42·6	+ 2·8	26	15	1	25	42·1	+0·5	45·1	+0·4	6	0·61	0·00	0·7	- 0·6	10	- 8	Armagh.
a Donaghadee ..	51	27th	33	27th	47·9	38·0	43·2	+ 2·0	25	11	*	*	*	*	*	*	2	0·32	- 0·33	*	*	*	*	* *
											3	25	43·4	+1·3	45·9	+0·7	—	—	—	*	*	*	*	Trinity Coll.
10. IRELAND, S.											5	23	*	*	*	*	—	—	—	0·8	- 0·9	11	-13	Phœnix Park.
a, East .. *p* Dublin, City	56	27th	35	27th	50·7	39·4	45·3	+ 3·1	34	7	0	32	*	*	*	*	7	0·71	+ 0·22	*	*	*	*	Dublin City.
a Kilkenny	56	27th	30	22nd	49·9	34·7	42·6	+ 1·9	35	20	*	*	*	*	*	*	7	0·83	+ 0·08	*	*	*	*	* *
a Waterford	54	27th	33	22nd	50·6	38·0	44·6	+ 2·8	35	11	*	*	*	*	*	*	6	1·06	+ 0·10	*	*	*	*	* *
a Birr Castle	56	27th	35	27th	48·3	37·4	43·1	+ 2·9	27	13	*	*	*	*	*	*	7	1·09	+ 0·41	0·7	- 0·7	10	- 9	Birr Castle.
a Foynes	56	27th	38	26th	51·0	40·3	45·9	+ 3·2	34	5	*	*	*	*	*	*	7	1·14	+ 0·18	*	*	*	*	* *
a Cahir	54	27th	32	26th	49·0	35·9	42·7	+ 0·5	31	17	*	*	*	*	*	*	7	1·12	—	*	*	*	*	* *
b, West .. *a* Killarney	56	27th	41	26th	52·1	42·4	47·4	+ 4·4	38	0	*	*	*	*	*	*	7	1·93	+ 0·36	*	*	*	*	* *
a Valencia	55	27th	41	24, 25	51·1	43·7	47·6	+ 2·4	39	0	*	*	*	*	*	*	7	1·88	+ 0·47	1·1	- 0·3	15	- 3	Valencia.
a Roche's Point	54	27th	41	22, 23, 28	50·7	42·0	46·5	+ 2·1	32	0	*	*	*	*	*	*	7	1·41	+ 0·21	1·3	—	17	—	Ballinacurra.
11. ENGLISH CHANNEL.																								
a Scilly, St. Mary's ..	56	27th	43	23rd	54·0	46·7	50·5	+ 3·4	60	0	*	*	*	*	*	*	7	1·95	+ 1·07	0·2	- 1·4	3	-18	Scilly.
a Jersey, St. Aubins ..	56	26th	39	22nd	53·4	44·9	49·3	+ 5·3	51	0	*	*	*	*	*	*	7	1·44	+ 0·62	0·5	- 1·5	6	-19	St. Heliers.
a Guernsey (Villa Carey)	55	27th	44	26th	53·0	47·0	50·1	+ 5·4	57	0	*	*	*	*	*	*	7	2·59	+ 1·67	1·2	- 0·3	15	- 3	Guernsey.*

Additional Sunshine Means :—*Bognor, 0·1 hrs. 1 %; Ramsgate, 0·4 hrs. 5 %; Rhyl, 1·3 hrs. 18 %; Salcombe. 0·0 hrs. 0 %; Tenby, 0·1 hrs. (-1·5) 1 % (- 19 %); Torquay, 0·2 hrs. (-1·6) 3 % (-21 %).*
* The Earth temperatures and grass minimum for Guernsey are for Brooklyn.

III.—TEMPERATURE of the SEA. Week ending on morning of Saturday, December 28th.

Taken daily at or about sunrise and at 4 p.m.

DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.	DISTRICT.	STATION.	Highest.	Lowest.	Mean.	Difference from Average.
		°	°	°				°	°	°	
SCOTLAND, N. ..	Lerwick	44	44	44·0	-0·4	SCOTLAND, W. ..	Lamlash	47	44	46·0	-0·7
	Kirkwall	43	42	42·7	+0·6		Ballantrae	46	44	44·7	+0·6
	Wick	46	45	45·1	-0·7	ENGLAND, N.W. ..	Port Erin	48	47	47·7	0·0
SCOTLAND, E. ..	Cromarty	43	41	42·1	+1·0		Newquay	50	50	50·0	+1·9
	Pennan Bay	43	42	42·5	+1·2	ENGLAND, S.W. ..	Scilly	51	50	50·8	—
	Aberdeen, Cove Bay	44	42	43·5	+1·2		Plymouth‡	51	50	50·6	+1·9
ENGLAND, N.E. ..	Burnmouth, Berwick	41	39	39·9	-2·4		Salcombe	50	48	49·2	+0·6
	Scarborough	44	41	42·5	-1·0	IRELAND, N.W. ..	Sheephaven	47	45	46·1	+0·6
ENGLAND, E. ..	Shipwash Lightship	47	46	46·5	+2·4		Teelin	48	45	46·5	+0·8
	Margate‡	46	46	45·9	+2·4	IRELAND, S.W. ..	Cleggan	49	47	47·9	+2·9
ENGLAND, S.E. ..	Eastbourne‡	47	46	46·3	+1·7		Seafield	54	49	51·3	+4·5
						IRELAND, E.	.. ..	—	—	—	—

‡ Only one observation each day.

NOTES ON TABLES II. AND III.

The temperature of the Air is obtained from thermometers placed in a louvred screen about 4 ft. from the ground.

The names of Stations shown on the left of Table II. are those of Temperature and Rainfall Stations. The Sunshine and temperature on the grass and in the ground are recorded at the Stations shown in the column on the right.

The maximum and minimum thermometers are read and set at the morning hour of observation (generally 7 a.m. or 9 a.m.) at Stations marked *a*, and at the hour of evening observation (9 p.m.) at Stations marked *p*. At the former the maximum temperature is entered to the day preceding that of reading, and at the latter it is entered to the day of reading. The minimum temperature is entered to the day of reading in all cases. A night is reckoned as a night of ground frost if the thermometer on the grass falls to 30° or below. The observations of earth temperature are made at 9 a.m.

The averages for Earth Temperatures and Sea Temperatures are for the 5 years 1907-1911, but in some cases for 1908-1911, or 1909-1911.

Information for Stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society, as well as with the Meteorological Office.

Values in Table II. printed in italic type are not used for the computation of the "District Values" shown in Table IV.

EXPLANATION OF NOMENCLATURE USED ON THE FRONT PAGE.

WARMTH.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week only once in twelve years. Otherwise it is called moderate.

RAINFALL.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without rain, the word "nought" is inserted in the column for the district.

SUNSHINE.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called moderate. When the week has been without sunshine the word "nought" is inserted in the column for the district.

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years, 1881—1905 An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

NOTE.—The charts for the current week will be issued with the Statistical Tables for next week.

IV.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous page. TEMPERATURE—*The Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours or any other number of degrees, for an inversely proportional number of hours.

The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905.

FIFTY SECOND WEEK—December 22nd to December 28th, 1912.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (‡25 Yrs.)	Above 42°	Difference from Av. (‡25 Yrs.)	Below 42°	Difference from Av. (‡25 Yrs.)	Number of Rain-Days.	Diff. from Av. (25 Yrs.)	Total Fall.	Difference from Average (25 Yrs.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	Diff. from Av (25 Yrs.)
	°	°	°	°	°	°	Day-deg.	Day-deg.	Day-deg.	Day-deg.			Inches.	Inches.	Hr.	Hr.	%	%
0. SCOTLAND, NORTH ...	50	24	44·5	35·4	40·1	+ 1·8	7	0	26	− 8	6	+ 1	1·85	+0·71	0·3	−0·3	4	− 5
Eastern.																		
1. SCOTLAND, EAST ...	53	23	44·4	33·8	39·3	+ 2·5	7	+ 1	32	−11	5	+ 1	0·87	+0·26	0·8	−0·1	13	− 1
2. ENGLAND, N.E.	55	27	47·9	37·9	43·1	+ 5·1	25	+ 18	11	−25	5	+ 2	0·75	+0·35	0·6	−0·5	8	− 7
3. ENGLAND, EAST ...	59	36	50·8	41·2	46·2	+ 8·7	33	+ 25	2	−39	7	+ 3	1·26	+0·87	0·3	−1·0	4	−13
4. MIDLAND COUNTIES ...	59	33	49·9	39·1	44·7	+ 7·3	31	+ 22	8	−33	6	+ 2	1·47	+0·95	0·5	−0·6	7	− 8
5. ENGLAND, S.E.	59	35	51·4	43·4	47·6	+ 8·0	39	+ 26	0	−30	6	+ 2	1·57	+1·05	0·4	−1·0	5	−12
Western.																		
6. SCOTLAND, WEST ...	51	28	47·1	37·6	42·6	+ 3·4	23	+ 14	12	−17	6	+ 1	1·28	+0·14	0·5	−0·4	6	− 6
7. ENGLAND, N.W.	56	33	49·0	39·9	44·6	+ 5·3	27	+ 17	6	−23	6	+ 2	0·90	+0·23	0·5	−0·4	7	− 6
8. ENGLAND, S.W.	57	33	51·6	42·9	47·4	+ 6·0	38	+ 21	0	−21	7	+ 3	2·59	+1·65	0·1	−1·3	1	−17
9. IRELAND, NORTH ...	56	29	47·9	37·6	43·0	+ 2·4	25	+ 12	12	−11	6	+ 2	1·00	+0·17	0·8	−0·3	11	− 4
10. IRELAND, SOUTH ...	56	30	50·4	39·3	45·1	+ 2·6	33	+ 12	8	−10	7	+ 2	1·24	+0·17	1·0	−0·4	13	− 6
11. ENGLISH CHANNEL ...	56	39	53·5	46·2	50·0	+ 4·3	56	+ 28	0	− 7	7	+ 2	1·99	+1·22	0·6	−1·2	8	−15

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 4 Weeks, December 1st to December 28th, 1912.

0. SCOTLAND, NORTH ...	55	11	*	*	*	*	40	+ 6	100	−22	25	+ 4	9·21	+3·91	0·3	−0·3	4	− 6
Eastern.																		
1. SCOTLAND, EAST ...	58	2	*	*	*	*	45	+ 15	126	−30	20	+ 3	3·46	+0·82	0·7	−0·3	11	− 4
2. ENGLAND, N.E.	58	19	*	*	*	*	88	+ 53	73	−52	17	+ 3	1·88	−0·14	0·7	−0·5	9	− 8
3. ENGLAND, EAST ...	59	24	*	*	*	*	106	+ 67	45	−98	20	+ 4	2·45	+0·71	0·6	−0·8	8	−11
4. MIDLAND COUNTIES ...	59	20	*	*	*	*	109	+ 67	63	−84	19	+ 4	3·17	+1·05	0·8	−0·4	11	− 5
5. ENGLAND, S.E.	59	22	*	*	*	*	139	+ 76	23	−78	19	+ 3	3·28	+0·97	0·9	−0·5	12	− 7
Western.																		
6. SCOTLAND, WEST ...	56	11	*	*	*	*	83	+ 35	60	−36	25	+ 6	5·95	+1·11	0·4	−0·6	6	− 8
7. ENGLAND, N.W.	60	8	*	*	*	*	107	+ 58	43	−56	23	+ 6	4·19	+1·18	0·5	−0·5	7	− 6
8. ENGLAND, S.W.	57	22	*	*	*	*	140	+ 60	13	−57	23	+ 5	6·07	+2·00	0·8	−0·7	10	− 9
9. IRELAND, NORTH ...	58	20	*	*	*	*	118	+ 63	36	−51	25	+ 5	5·15	+1·72	0·7	−0·5	10	− 7
10. IRELAND, SOUTH ...	58	20	*	*	*	*	143	+ 52	22	−44	28	+ 9	4·91	+0·79	1·1	−0·4	14	− 6
11. ENGLISH CHANNEL ...	56	35	*	*	*	*	191	+ 62	0	−19	25	+ 5	3·98	+0·48	1·0	−0·8	13	−10

THE YEAR.—Aggregates, &c., for the Period of 52 Weeks, December 31st, 1911, to December 28th, 1912.

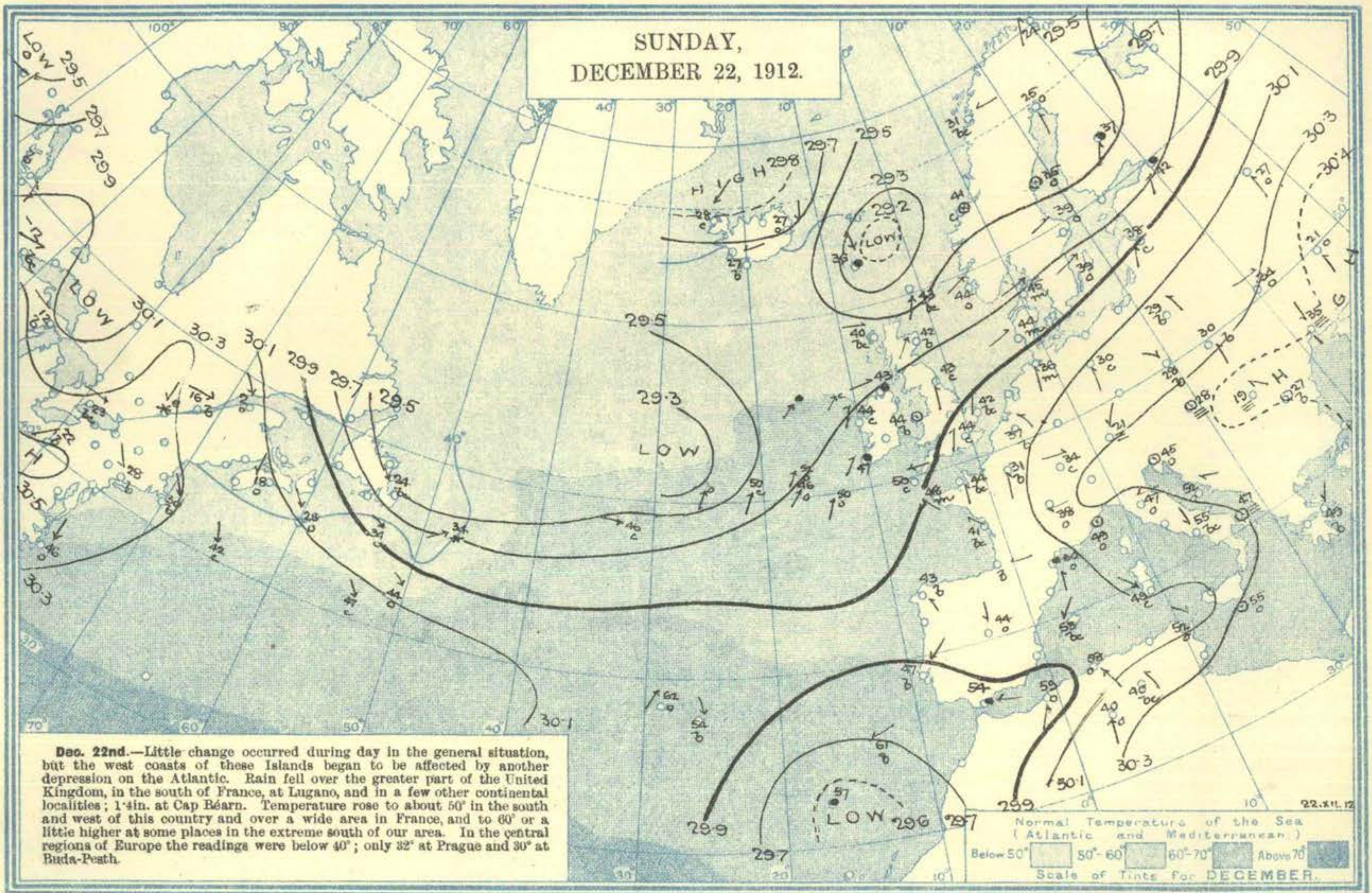
0. SCOTLAND, NORTH ...	74	7	*	*	*	*	1947	−165	631	−165	250	+ 3	55·24	+ 2·93	2·8	−0·2	23	− 2
Eastern.																		
1. SCOTLAND, EAST ...	87	−5	*	*	*	*	2182	−171	815	−113	216	+13	33·59	+ 2·82	2·8	−0·8	23	− 7
2. ENGLAND, N.E.	86	10	*	*	*	*	2634	− 7	522	−163	207	+23	31·08	+ 6·31	3·1	−0·9	25	− 8
3 ENGLAND, EAST ...	91	14	*	*	*	*	3173	+126	399	−365	199	+20	29·74	+ 6·22	3·8	−0·5	31	− 5
4. MIDLAND COUNTIES ...	88	9	*	*	*	*	2914	− 48	550	−248	189	+12	34·62	+ 8·38	3·1	−0·7	26	− 6
5. ENGLAND, S.E.	88	13	*	*	*	*	3234	− 96	307	−242	186	+14	32·49	+ 5·58	4·0	−0·4	33	− 4
Western.																		
6. SCOTLAND, WEST ...	83	6	*	*	*	*	2485	− 97	478	−125	223	+ 9	47·28	− 0·92	3·2	−0·5	26	− 5
7. ENGLAND, N.W.	84	6	*	*	*	*	2754	− 70	397	−150	214	+17	39·58	+ 4·80	3·3	−0·5	27	− 4
8. ENGLAND, S.W.	88	9	*	*	*	*	3061	−132	243	−179	218	+21	48·22	+ 9·57	3·5	−0·8	29	− 7
9. IRELAND, NORTH ...	75	15	*	*	*	*	2591	−113	330	−172	218	−14	39·11	+ 0·81	3·0	−0·5	25	− 4
10. IRELAND, SOUTH ...	79	13	*	*	*	*	3023	−129	235	−150	249	+41	42·36	+ 2·16	3·2	−0·8	26	− 7
11. ENGLISH CHANNEL ...	82	27	*	*	*	*	3846	+ 54	44	− 88	226	+14	41·42	+ 8·76	4·4	−0·8	37	− 7

M.O., January 1, 1913.

NOTES ON TABLE IV.

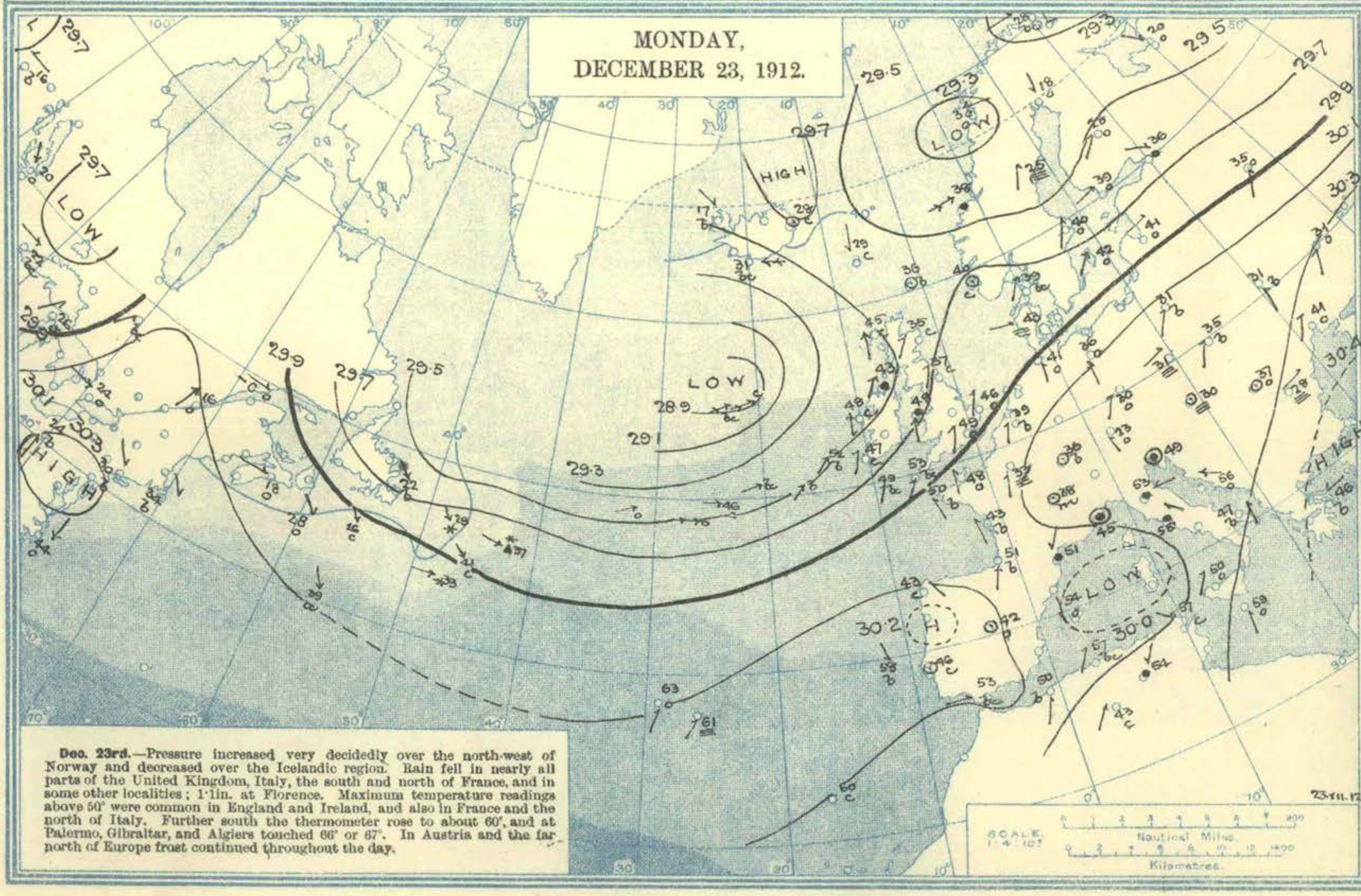
* An Asterisk is inserted in all places for which the information is not usually given.
‡ In districts 0, 1, and 6, the district averages for temperature are for 20 years only.

SUNDAY, DECEMBER 22, 1912.

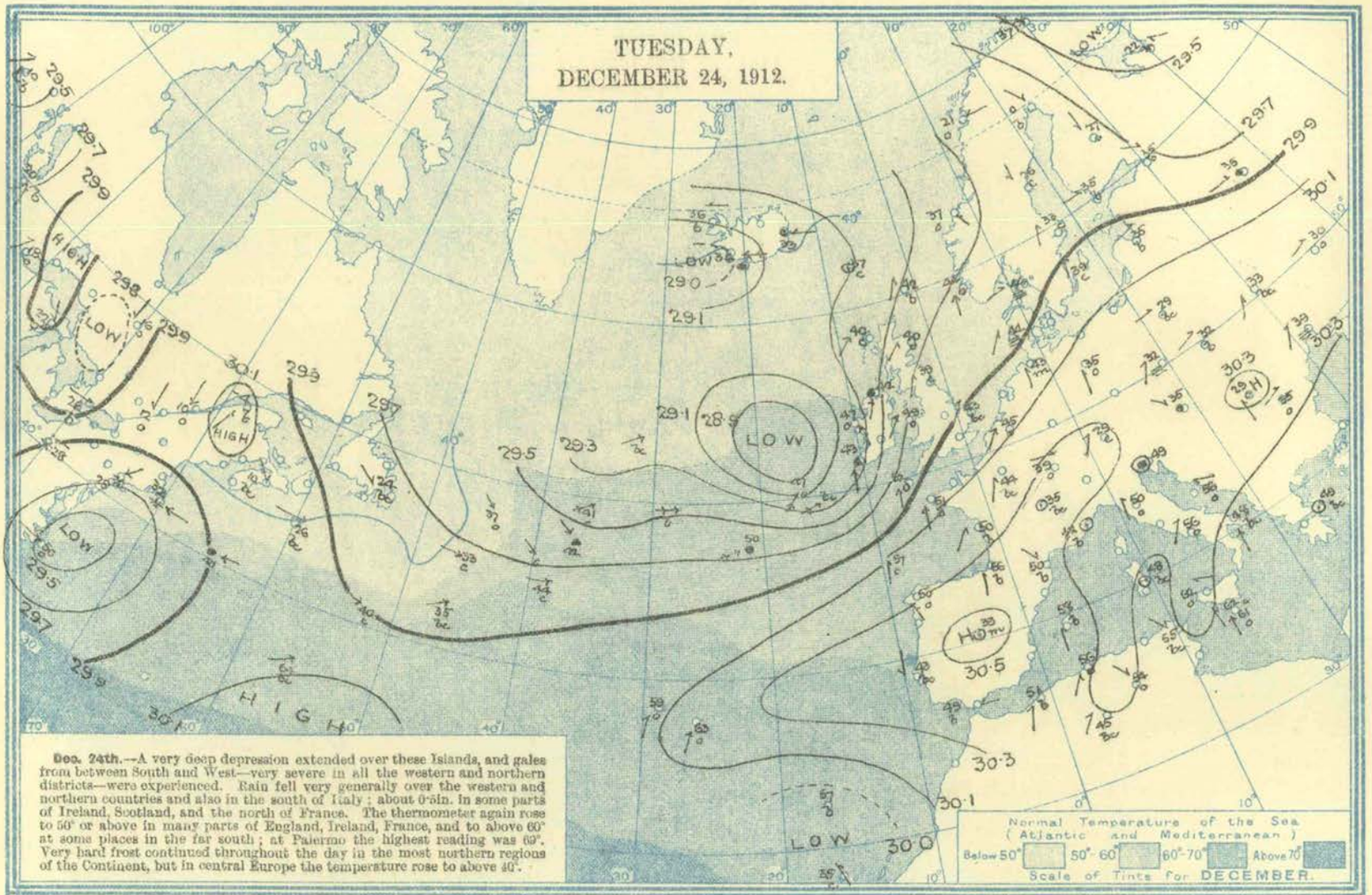


Dec. 22nd.—Little change occurred during day in the general situation, but the west coasts of these Islands began to be affected by another depression on the Atlantic. Rain fell over the greater part of the United Kingdom, in the south of France, at Lugano, and in a few other continental localities; 1·4in. at Cap Béarn. Temperature rose to about 50° in the south and west of this country and over a wide area in France, and to 60° or a little higher at some places in the extreme south of our area. In the central regions of Europe the readings were below 40°; only 32° at Prague and 30° at Buda-Pesth.

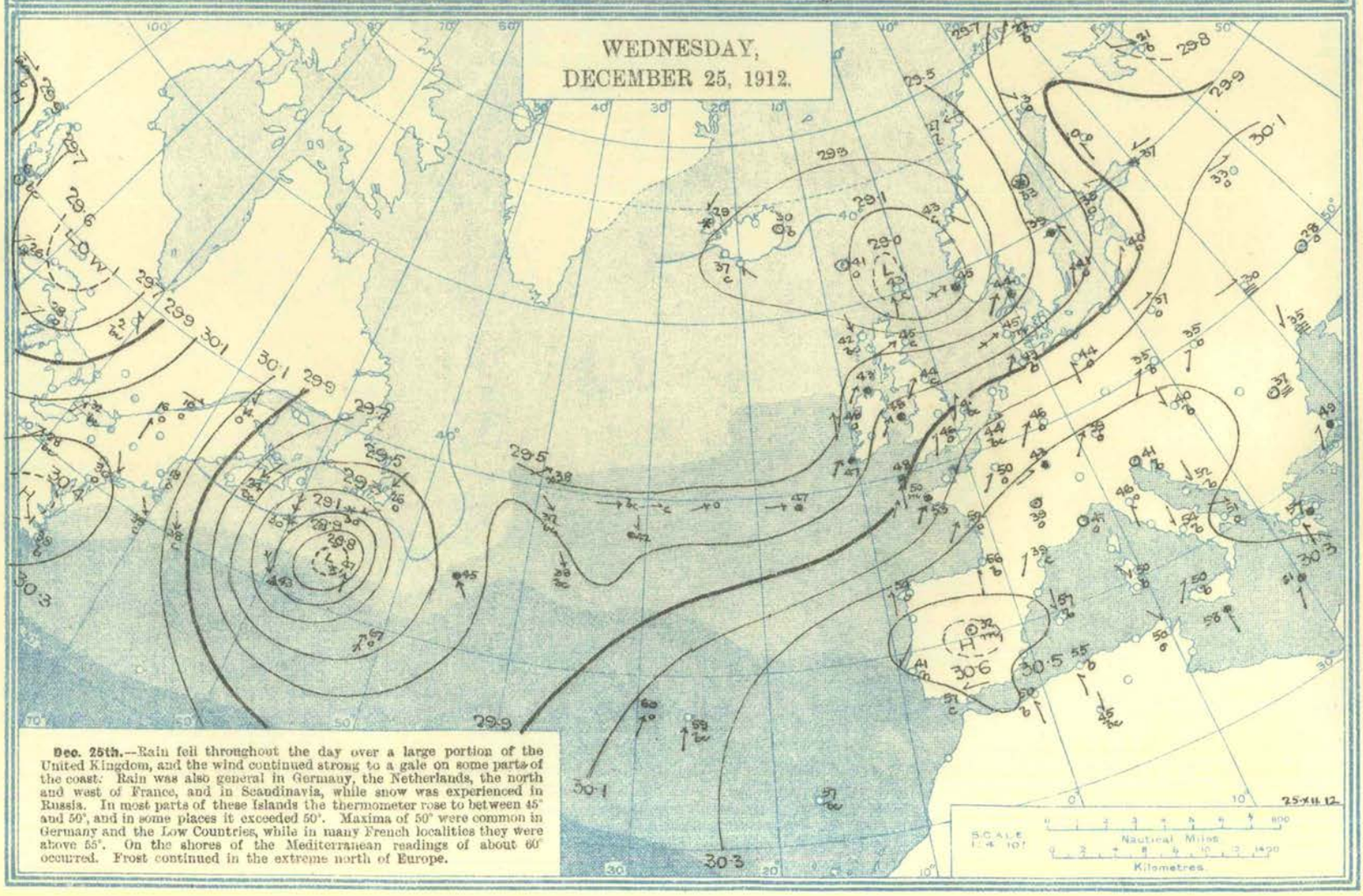
MONDAY, DECEMBER 23, 1912.



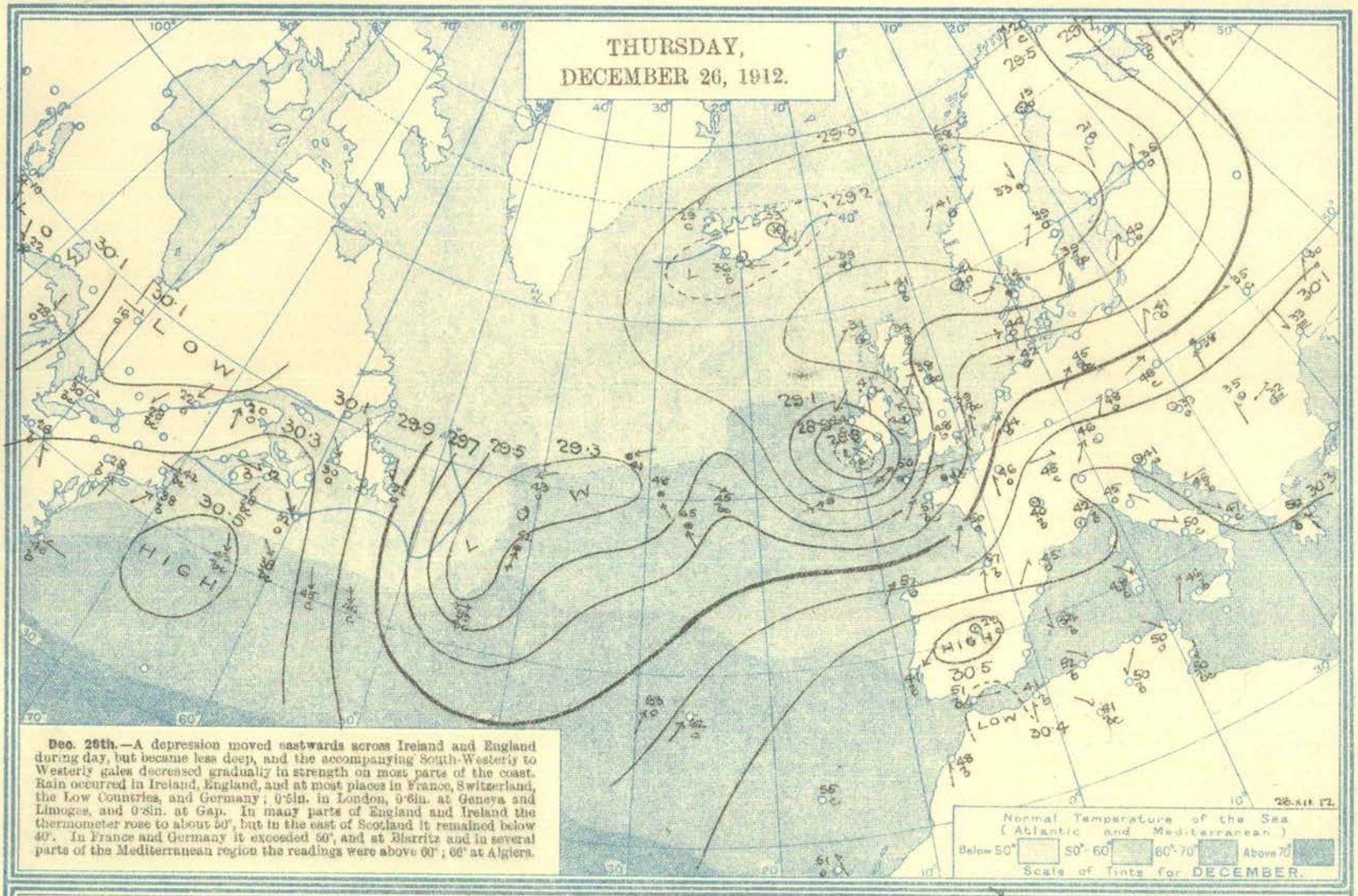
Dec. 23rd.—Pressure increased very decidedly over the north-west of Norway and decreased over the Icelandic region. Rain fell in nearly all parts of the United Kingdom, Italy, the south and north of France, and in some other localities; 1·1in. at Florence. Maximum temperature readings above 50° were common in England and Ireland, and also in France and the north of Italy. Further south the thermometer rose to about 60°, and at Palermo, Gibraltar, and Algiers touched 66° or 67°. In Austria and the far north of Europe frost continued throughout the day.



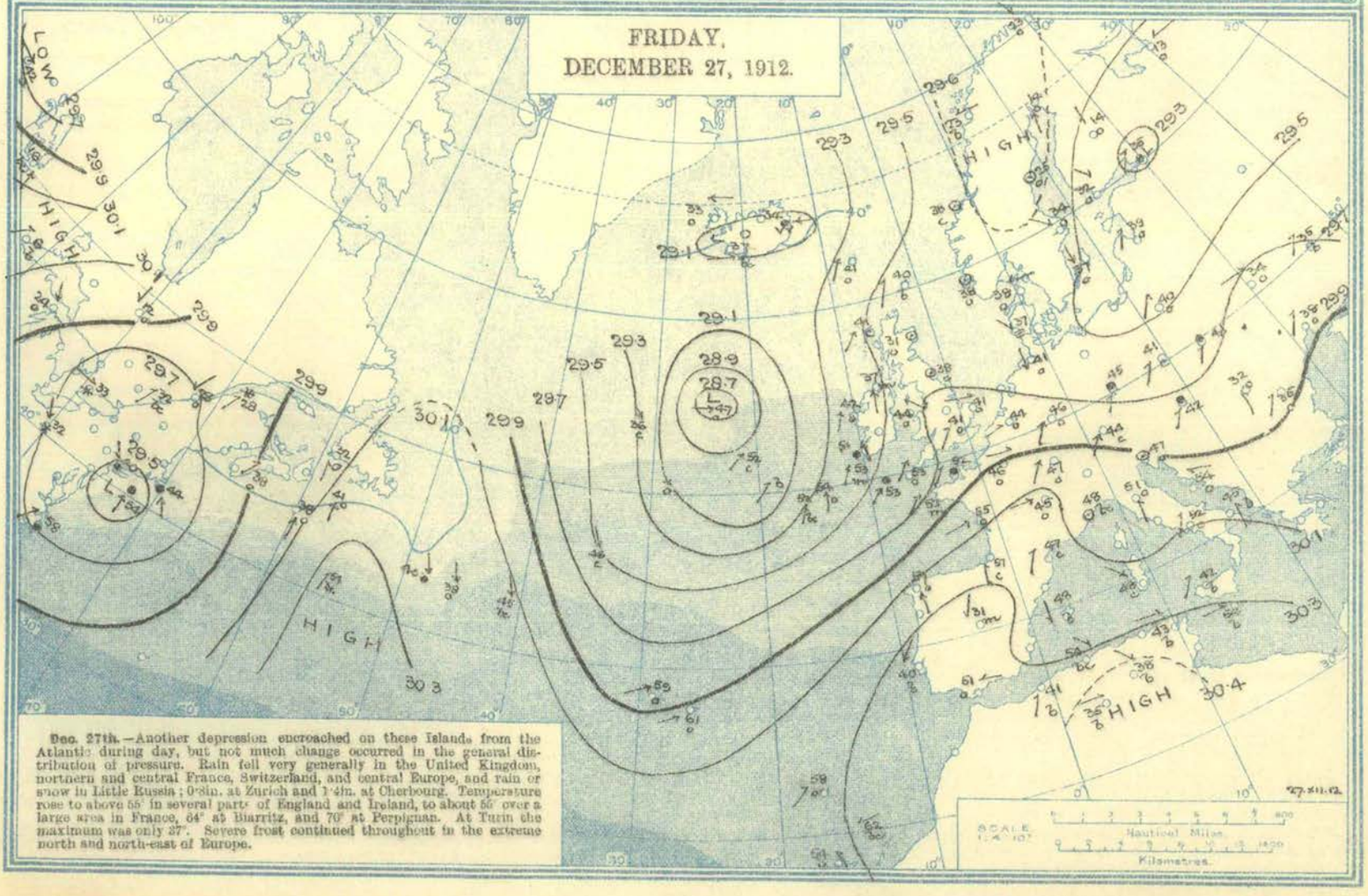
Dec. 24th.—A very deep depression extended over these Islands, and gales from between South and West—very severe in all the western and northern districts—were experienced. Rain fell very generally over the western and northern countries and also in the south of Italy; about 0·5in. in some parts of Ireland, Scotland, and the north of France. The thermometer again rose to 56° or above in many parts of England, Ireland, France, and to above 60° at some places in the far south; at Palermo the highest reading was 69°. Very hard frost continued throughout the day in the most northern regions of the Continent, but in central Europe the temperature rose to above 40°.



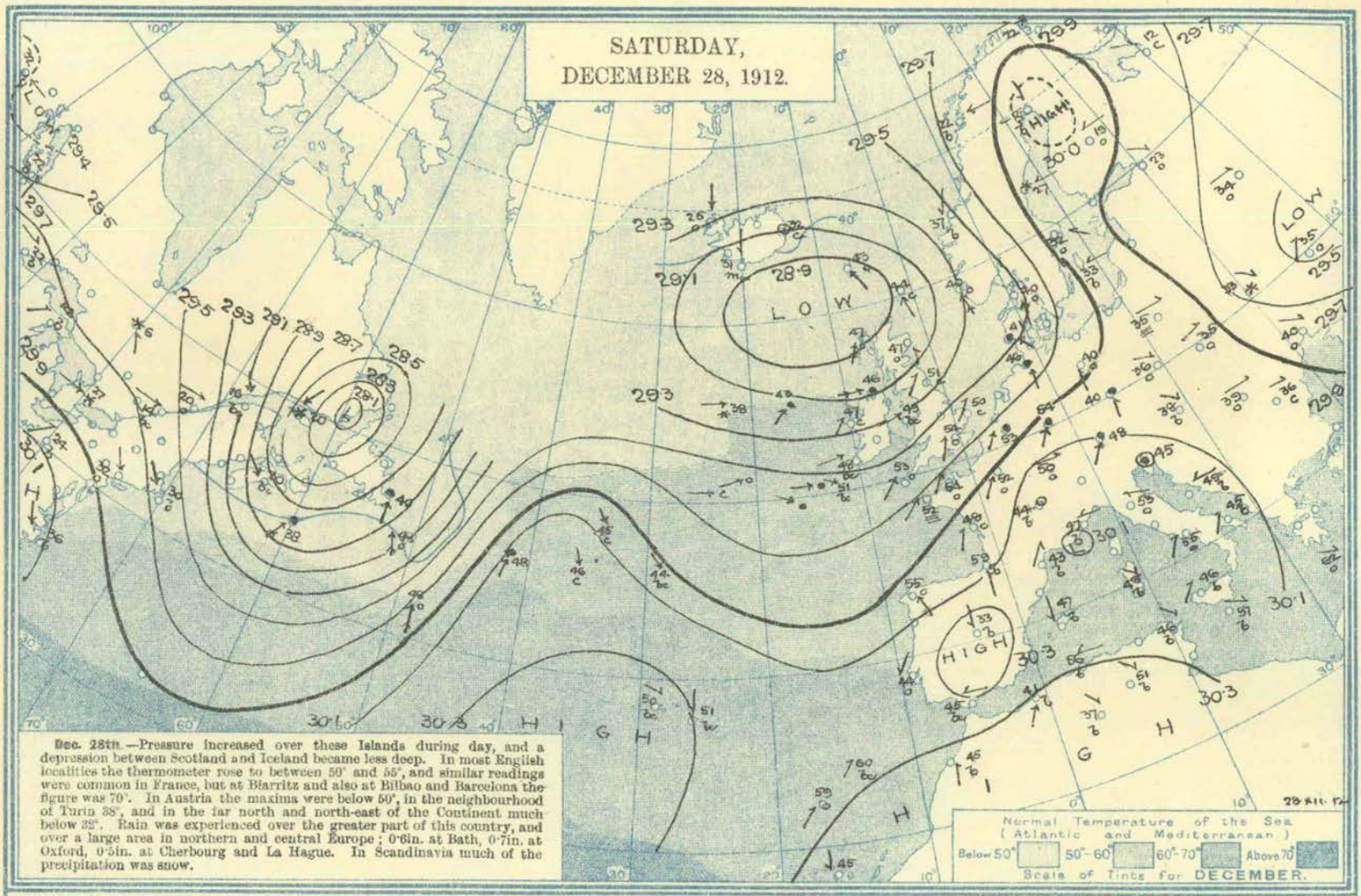
Dec. 25th.—Rain fell throughout the day over a large portion of the United Kingdom, and the wind continued strong to a gale on some parts of the coast. Rain was also general in Germany, the Netherlands, the north and west of France, and in Scandinavia, while snow was experienced in Russia. In most parts of these Islands the thermometer rose to between 45° and 50°, and in some places it exceeded 50°. Maxima of 50° were common in Germany and the Low Countries, while in many French localities they were above 55°. On the shores of the Mediterranean readings of about 60° occurred. Frost continued in the extreme north of Europe.



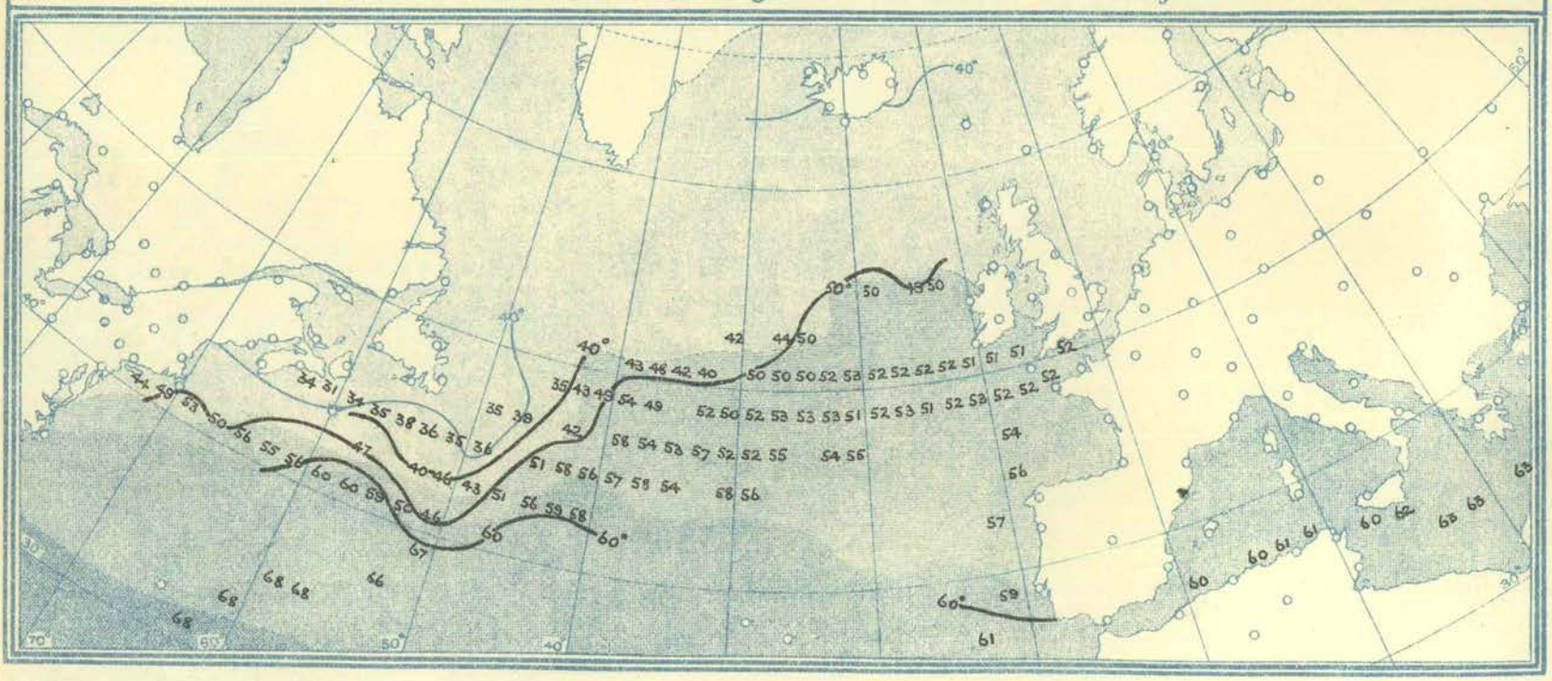
Dec. 26th.—A depression moved eastwards across Ireland and England during day, but became less deep, and the accompanying South-Westerly to Westerly gales decreased gradually in strength on most parts of the coast. Rain occurred in Ireland, England, and at most places in France, Switzerland, the Low Countries, and Germany; 0·6in. in London, 0·6in. at Geneva and Limoges, and 0·8in. at Gap. In many parts of England and Ireland the thermometer rose to about 50°, but in the east of Scotland it remained below 40°. In France and Germany it exceeded 50°, and at Biarritz and in several parts of the Mediterranean region the readings were above 60°; 66° at Algiers.



Dec. 27th.—Another depression encroached on these Islands from the Atlantic during day, but not much change occurred in the general distribution of pressure. Rain fell very generally in the United Kingdom, northern and central France, Switzerland, and central Europe, and rain or snow in Little Russia; 0·8in. at Zurich and 1·4in. at Cherbourg. Temperature rose to above 55° in several parts of England and Ireland, to about 55° over a large area in France, 64° at Biarritz, and 70° at Perpignan. At Turin the maximum was only 37°. Severe frost continued throughout in the extreme north and north-east of Europe.



SURFACE TEMPERATURE of the SEA during the week ended Saturday, 28TH DECEMBER, 1912.



Explanation of Charts.—The height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying with the wind. The force is indicated thus: ⇉ = a heavy gale (Forces 10-12 Beaufort Scale); ⟶ = a gale (Forces 8 and 9); ⟶ = a moderate breeze to high wind (Forces 4 to 7); ⟶ a light air to gentle breeze (Forces 1-3); and (•) = a calm. The weather is indicated as follows:—b = blue sky; c = detached cloud; o = overcast sky; m = mist; ≡ = fog; • = rain; ▲ = hail; ✳ = snow; ⚡ = thunderstorm. Temperatures are given in degrees Fahrenheit.

The charts are prepared from observations made at 7 a.m. in the British Islands, France, Belgium, Holland, Germany, Denmark, Norway, Sweden, Iceland, Azores, Madeira, and Algeria; at 6.30 a.m. in Switzerland; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 5 a.m. in Russia; at 9 a.m. in Portugal; and at 8 a.m. in Spain. These times refer to Greenwich Mean Time.

On the American Continent and at Bermuda the observations are taken at 8 a.m., mean time of Longitude 75° W., i.e., 1 p.m. G.M.T. "Wireless" observations from the Atlantic Ocean are taken at 7 a.m. G.M.T., others at 8 a.m. local time.

Temperature of the Sea.—The normal surface temperature of the sea for the month is indicated by the intensity of the blue shading and the scale shown in an inset. The isotherm for 40° is shown by a blue line. The temperatures observed during the week to which the report refers are shown in black on the last chart. The values given are the means of all readings for the week received up to the date of going to press for each two-degree square.

Pages 209-216 omitted in numbering ~~425~~ 217

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1912.

Thirty-fifth Year.
VOL. XXIX. [*New Series.*] } APPENDIX I.

FIRST QUARTER, 1912.

[*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1881-1912.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881-1910.

Eastern Districts.

YEARS.	0. SCOTLAND, N. Days.	Amount.	Per cent. of average.	1. SCOTLAND, E. Days.	Amount.	Per cent. of average.	2. ENGLAND, N.E. Days.	Amount.	Per cent. of average.	3. ENGLAND, E. Days.	Amount.	Per cent. of average.	4. MIDLAND COUNTIES. Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.* 1881-1885 ..	65	14·2	96	49	8·3	115	45	5·1	102	44	4·9	102	45	6·4	112
1886-1890 ..	66	14·5	98	52	6·6	92	47	5·1	102	47	4·5	94	43	5·2	91
1891-1895 ..	64	13·9	94	48	6·8	94	49	5·1	102	48	4·4	92	45	4·9	86
1896-1900 ..	67	14·6	99	53	6·7	93	49	5·4	108	49	5·4	113	46	6·1	107
1901-1905 ..	69	16·5	111	55	7·6	106	47	4·6	92	48	4·6	96	48	6·2	109
1906-1910 ..	69	15·1	102	52	7·4	103	47	4·9	98	49	5·0	104	46	5·3	93
30 years average ..	**67**	**14·8**	—	**52**	**7·2**	—	**47**	**5·0**	—	**47**	**4·8**	—	**46**	**5·7**	—
1911 ..	58	14·4	97	51	5·8	81	45	4·0	80	54	5·4	113	42	4·1	72
1912 ..	67	12·1	82	64	7·7	107	59	6·5	130	58	6·8	142	57	9·0	158

YEARS.	5. ENGLAND, S.E. Days.	Amount.	Per cent. of average.	DISTRICTS 1-5. Days.	Amount.	Per cent. of average.
		In.	%		In.	%
LUSTRA.* 1881-1885 ..	43	6·4	106	45	6·2	107
1886-1890 ..	44	5·4	89	47	5·4	93
1891-1895 ..	43	5·3	87	47	5·3	91
1896-1900 ..	44	6·5	107	48	6·0	103
1901-1905 ..	48	6·6	108	49	5·9	102
1906-1910 ..	48	6·1	100	48	5·7	98
30 years average ..	**45**	**6·1**	—	**47**	**5·8**	—
1911 ..	45	5·6	92	47	5·0	87
1912 ..	58	9·1	149	59	7·8	134

Western Districts.

YEARS.	6. SCOTLAND, W. Days.	Amount.	Per cent. of average.	7. ENGLAND, N.W. AND NORTH WALES. Days.	Amount.	Per cent. of average.	8. SOUTH WALES AND ENGLAND, S.W. Days.	Amount.	Per cent. of average.	9. IRELAND, N. Days.	Amount.	Per cent. of average.	10. IRELAND, S. Days.	Amount.	Per cent. of average.	DISTRICTS 6-10. Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.* 1881-1885 ..	58	13·2	109	51	8·8	110	53	9·7	104	61	9·4	102	57	11·9	118	56	10·6	108
1886-1890 ..	53	10·8	89	50	6·9	86	49	8·3	89	56	8·4	91	[illegible]	9·5	94	52	8·8	91
1891-1895 ..	53	10·5	87	47	6·7	84	47	8·1	87	55	7·8	85	49	8·5	84	50	8·3	86
1896-1900 ..	58	11·5	95	53	8·3	104	54	10·4	112	61	8·7	95	53	9·9	98	56	9·8	101
1901-1905 ..	61	13·7	113	56	8·4	105	54	10·0	108	67	10·3	112	60	11·4	113	60	10·8	111
1906-1910 ..	56	12·7	105	55	8·9	111	54	9·2	99	66	10·5	114	63	9·6	95	59	10·2	105
30 years average ..	**56**	**12·1**	—	**52**	**8·0**	—	**52**	**9·3**	—	**61**	**9·2**	—	**55**	**10·1**	—	**55**	**9·7**	—
1911 ..	49	10·1	83	44	6·3	79	48	7·5	81	48	6·2	67	54	7·0	69	49	7·4	76
1912 ..	62	13·2	109	60	9·6	120	70	13·6	146	58	10·3	112	72	12·9	128	64	11·9	123

YEARS.	11. ENGLISH CHANNEL. Days.	Amount.	Per cent. of average.	DISTRICTS 1-10 COMBINED. Days.	Amount.	Per cent. of average.
		In.	%		In.	%
LUSTRA.* 1881-1885 ..	57	8·2	104	51	8·4	108
1886-1890 ..	57	7·1	90	49	7·1	91
1891-1895 ..	52	7·1	90	49	6·8	87
1896-1900 ..	58	8·3	105	52	7·9	101
1901-1905 ..	61	8·7	110	51	8·4	108
1906-1910 ..	56	7·7	97	54	8·0	103
30 years average ..	**57**	**7·9**	—	**51**	**7·8**	—
1911 ..	55	6·5	82	48	6·2	80
1912 ..	61	11·4	144	62	9·9	127

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881-1910.

YEARS.	0. °	Diff.	1. °	Diff.	2. °	Diff.	3. °	Diff.	4. °	Diff.	5. °	Diff.	1-5. °	Diff.
LUSTRA.* 1881-1885 ..	38·2	− 0·1	38·0	+ 0·1	39·4	+ 0·3	39·8	+ 0·8	39·9	+ 0·8	41·4	+ 1·0	39·7	+ 0·6
1886-1890 ..	38·2	− 0·1	37·8	− 0·1	38·3	− 0·8	37·4	− 1·6	37·8	− 1·3	38·8	− 1·6	38·0	− 1·1
1891-1895 ..	37·4	− 0·9	36·8	− 1·1	37·9	− 1·2	37·6	− 1·4	37·8	− 1·3	39·0	− 1·4	37·8	− 1·3
1896-1900 ..	38·7	+ 0·4	38·4	+ 0·5	39·9	+ 0·8	40·1	+ 1·1	40·1	+ 1·0	41·8	+ 1·4	40·1	+ 1·0
1901-1905 ..	38·8	+ 0·5	38·3	+ 0·4	39·9	+ 0·8	40·1	+ 1·1	39·9	+ 0·8	41·2	+ 0·8	39·9	+ 0·8
1906-1910 ..	38·3	0·0	37·8	− 0·1	39·0	− 0·1	39·2	+ 0·2	39·0	− 0·1	40·0	− 0·4	39·0	− 0·1
30 years average ..	**38·3**	—	**37·9**	—	**39·1**	—	**39·0**	—	**39·1**	—	**40·4**	—	**39·1**	—
1911 ..	39·8	+ 1·5	38·9	+ 1·0	40·0	+ 0·9	39·9	+ 0·9	39·8	+ 0·7	40·5	+ 0·1	39·8	+ 0·7
1912 ..	39·7	+ 1·4	39·0	+ 1·1	40·6	+ 1·5	42·2	+ 3·2	41·1	+ 2·0	43·3	+ 2·9	41·2	+ 2·1

YEARS.	6. °	Diff.	7. °	Diff.	8. °	Diff.	9. °	Diff.	10. °	Diff.	6-10. °	Diff.	11. °	Diff.	1-10. °	Diff.
LUSTRA.* 1881-1885 ..	39·9	+ 0·1	40·5	+ 0·5	42·7	+ 1·2	41·3	+ 0·3	43·1	+ 0·5	41·5	+ 0·5	44·9	+ 0·4	40·6	+ 0·5
1886-1890 ..	39·2	− 0·6	38·9	− 1·1	40·2	− 1·3	40·5	− 0·5	41·8	− 0·8	40·1	− 0·9	43·2	− 1·3	39·1	− 1·0
1891-1895 ..	38·7	− 1·1	39·1	− 0·9	40·4	− 1·1	40·1	− 0·9	41·7	− 0·9	40·0	− 1·0	43·5	− 1·0	38·9	− 1·2
1896-1900 ..	40·5	+ 0·7	41·1	+ 1·1	42·7	+ 1·2	41·5	+ 0·5	43·3	+ 0·7	41·8	+ 0·8	45·9	+ 1·4	41·0	+ 0·9
1901-1905 ..	40·4	+ 0·6	40·6	+ 0·6	42·2	+ 0·7	41·2	+ 0·2	42·9	+ 0·3	41·4	+ 0·4	45·1	+ 0·6	40·7	+ 0·6
1906-1910 ..	39·9	+ 0·1	39·8	− 0·2	40·9	− 0·6	41·3	+ 0·3	42·7	+ 0·1	40·9	− 0·1	44·4	− 0·1	40·0	− 0·1
30 years average ..	**39·8**	—	**40·0**	—	**41·5**	—	**41·0**	—	**42·6**	—	**41·0**	—	**44·5**	—	**40·1**	—
1911 ..	40·8	+ 1·0	41·6	+ 1·6	41·2	− 0·3	41·7	+ 0·7	42·6	0·0	41·6	+ 0·6	44·0	− 0·5	40·7	+ 0·6
1912 ..	40·6	+ 0·8	41·4	+ 1·4	43·4	+ 1·9	42·2	+ 1·2	44·0	+ 1·4	42·3	+ 1·3	46·8	+ 2·3	41·8	+ 1·7

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1910.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881-1910.

—	0. Th.-hrs.	Daily Mean.	Per cent. of av.	1. Th.-hrs.	Daily Mean.	Per cent. of av.	2. Th.-hrs.	Daily Mean.	Per cent. of av.	3. Th.-hrs.	Daily Mean.	Per cent. of av.	4. Th.-hrs.	Daily Mean.	Per cent. of av.
			%			%			%			%			%
LUSTRA.* 1881-1885 ..	·17	1·9	94	·24	2·6	104	·22	2·4	89	·25	2·7	97	·22	2·4	96
1886-1890 ..	·16	1·8	92	·21	2·3	93	·23	2·5	94	·23	2·5	88	·20	2·2	88
1891-1895 ..	·27	2·3	117	·26	2·9	114	·29	3·2	119	·29	3·2	112	·27	3·0	118
1896-1900 ..	·18	2·0	100	·22	2·4	98	·23	2·5	96	·25	2·7	96	·22	2·4	95
1901-1905 ..	·16	1·8	91	·19	2·1	82	·22	2·4	89	·25	2·7	96	·19	2·1	87
1906-1910 ..	·19	2·1	106	·25	2·7	109	·28	3·1	114	·28	3·1	111	·26	2·9	115
30 years average ..	**·18**	**2·0**	—	**·23**	**2·5**	—	**·24**	**2·6**	—	**·26**	**2·9**	—	**·23**	**2·5**	—
1911 ..	·20	2·2	113	·23	2·5	101	·21	2·3	88	·23	2·5	88	·20	2·2	88
1912 ..	·20	2·2	109	·19	2·2	85	·19	2·0	76	·18	2·0	70	·17	1·8	73

—	5. Th.-hrs.	Daily Mean.	Per cent. of av.	1-5. Th.-hrs.	Daily Mean.	Per cent. of av.	6. Th.-hrs.	Daily Mean.	Per cent. of av.	7. Th.-hrs.	Daily Mean.	Per cent. of av.	8. Th.-hrs.	Daily Mean.	Per cent. of av.
			%			%			%			%			%
LUSTRA.* 1881-1885 ..	·25	2·7	97	·24	2·6	97	·19	2·1	93	·19	2·1	86	·24	2·6	94
1886-1890 ..	·20	2·2	79	·21	2·3	88	·20	2·2	96	·21	2·3	94	·24	2·6	92
1891-1895 ..	·30	3·3	117	·28	3·1	116	·24	2·6	117	·24	2·6	109	·30	3·3	118
1896-1900 ..	·24	2·6	96	·23	2·5	96	·20	2·2	98	·22	2·4	99	·24	2·6	94
1901-1905 ..	·24	2·6	94	·22	2·4	90	·19	2·1	91	·21	2·3	95	·23	2·5	90
1906-1910 ..	·30	3·3	117	·27	3·0	113	·22	2·4	105	·26	2·9	119	·29	3·2	112
30 years average ..	**·25**	**2·7**	—	**·24**	**2·6**	—	**·21**	**2·3**	—	**·22**	**2·4**	—	**·26**	**2·9**	—
1911 ..	·24	2·6	94	·22	2·4	91	·22	2·4	103	·23	2·5	104	·24	2·6	95
1912 ..	·19	2·0	73	·18	2·0	75	·18	2·0	88	·19	2·7	87	·20	2·2	76

—	9. Th.-hrs.	Daily Mean.	Per cent. of av.	10. Th.-hrs.	Daily Mean.	Per cent. of av.	6-10. Th.-hrs.	Daily Mean.	Per cent. of av.	11. Th.-hrs.	Daily Mean.	Per cent. of av.	1-10. Th.-hrs.	Daily Mean.	Per cent. of av.
			%			%			%			%			%
LUSTRA.* 1881-1885 ..	·22	2·4	101	·25	2·7	101	·22	2·4	94	·32	3·5	103	·23	2·5	95
1886-1890 ..	·20	2·2	91	·25	2·7	102	·22	2·4	94	·30	3·3	98	·22	2·4	91
1891-1895 ..	·24	2·6	111	·27	3·0	110	·26	2·9	113	·36	3·9	116	·27	3·0	115
1896-1900 ..	·22	2·4	104	·25	2·7	100	·23	2·5	98	·28	3·1	89	·23	2·5	97
1901-1905 ..	·20	2·2	94	·22	2·4	90	·21	2·3	91	·27	3·0	87	·22	2·4	91
1906-1910 ..	·22	2·4	100	·24	2·6	97	·25	2·7	106	·33	3·6	107	·26	2·9	109
30 years average ..	**·22**	**2·4**	—	**·25**	**2·7**	—	**·23**	**2·5**	—	**·31**	**3·4**	—	**·24**	**2·6**	—
1911 ..	·24	2·6	112	·26	2·9	103	·24	2·6	103	·27	3·0	87	·23	2·5	97
1912 ..	·20	2·3	94	·23	2·5	94	·22	2·2	87	·24	2·6	77	·20	2·1	81

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1911 are published in Appendix I. to the Weekly Weather Report for 1911.

Meteorological Office, South Kensington, London, S.W.
May, 1912.

W. N. SHAW,
Director.

(24438—24.) Wt. 173—814. 450. 5/12. D & S.

(25616—24.) Wt. 173—814. 450. 8/12. D & S.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1912.

Thirty-fifth Year. VOL. XXIX. [*New Series.*] } APPENDIX I. SECOND QUARTER, 1912. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1881–1912.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
LUSTRA.*		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
1881-1885	51	*8·5*	*100*	44	*6·4*	*102*	43	5·8	107	39	5·9	107	41	6·5	108	38	5·6	104	41	6·0	105	47	*8·4*	*98*	42	7·0	103	44	7·2	104	52	7·2	95	46	7·7	100	46	7·5	100	45	5·6	100	44	6·8	103
1886-1890	54	*7·7*	*91*	43	6·0	94	40	4·8	89	41	5·1	93	41	6·4	107	40	5·7	106	41	5·6	98	45	8·8	102	41	6·5	96	42	6·5	94	46	7·1	93	46	7·5	97	44	7·3	97	46	5·9	105	43	6·5	98
1891-1895	48	7·1	84	42	5·5	87	40	5·2	96	36	4·8	87	35	5·1	86	32	3·8	70	37	4·9	86	42	6·7	78	40	6·0	88	35	5·3	77	47	6·6	87	41	7·1	92	41	6·3	84	36	4·7	84	39	5·6	85
1896-1900	54	8·9	105	48	6·9	110	42	5·4	100	40	5·4	98	40	5·8	97	37	5·0	93	42	5·7	100	46	*8·6*	*100*	44	5·9	87	41	7·3	106	55	9·1	120	47	8·5	110	48	8·3	111	42	5·6	100	45	7·0	106
1901-1905	54	9·1	107	48	5·9	94	40	5·0	93	39	5·7	104	40	5·7	95	39	6·1	113	41	5·7	100	50	9·4	*109*	45	7·3	107	41	7·3	106	53	7·1	93	46	7·2	94	46	7·2	98	45	6·2	111	44	6·4	97
1906-1910	59	9·7	114	52	7·2	114	47	6·1	113	43	6·2	113	46	6·7	112	43	6·4	119	46	6·5	114	51	9·7	113	50	7·9	116	48	8·0	116	58	8·7	114	56	8·3	108	53	8·6	115	41	5·6	100	50	7·5	114
30 years average	**53**	**8·5**	—	**46**	**6·3**	—	**42**	**5·4**	—	**40**	**5·5**	—	**41**	**6·0**	—	**38**	**5·4**	—	**41**	**5·7**	—	**47**	**8·6**	—	**44**	**6·8**	—	**42**	**6·9**	—	**52**	**7·6**	—	**47**	**7·7**	—	**46**	**7·5**	—	**43**	**5·6**	—	**44**	**6·6**	—
1911	48	9·6	113	45	6·5	103	37	6·2	115	33	4·9	89	31	4·2	70	30	4·4	81	35	5·2	91	42	8·8	102	38	7·2	106	35	6·4	93	40	6·2	82	44	7·0	91	40	7·1	95	34	5·3	95	38	6·2	94
1912	56	11·1	131	48	6·1	97	43	7·7	143	36	3·8	69	38	6·8	113	31	4·8	89	39	5·8	102	50	9·3	108	43	6·9	101	40	7·5	109	48	7·5	99	53	8·6	112	47	8·0	107	46	5·1	91	43	6·9	105

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

LUSTRA.*	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.	0	Diff.
1881-1885	*47·6*	*0·0*	*48·3*	*- 0·1*	49·6	0·0	51·4	+ 0·1	51·2	+ 0·1	52·5	+ 0·1	50·6	0·0	*49·5*	*- 0·4*	50·4	- 0·3	51·1	- 0·5	50·2	- 0·1	51·1	- 0·6	50·5	- 0·3	52·4	- 0·7	50·6	- 0·1
1886-1890	*47·7*	*+ 0·1*	48·6	+ 0·2	49·1	- 0·5	51·0	+ 0·1	51·5	+ 0·2	52·2	+ 0·1	50·4	- 0·2	49·7	- 0·2	50·4	- 0·3	51·4	- 0·2	50·3	0·0	51·6	- 0·1	50·7	- 0·1	52·5	- 0·6	50·5	- 0·2
1891-1895	48·2	+ 0·6	48·9	+ 0·3	49·7	+ 0·1	51·5	+ 0·2	51·8	+ 0·7	53·2	+ 0·8	51·0	+ 0·4	50·5	+ 0·6	51·5	+ 0·8	52·5	+ 0·9	51·3	+ 1·0	52·6	+ 0·9	51·7	+ 0·9	54·0	+ 0·9	51·4	+ 0·7
1896-1900	48·0	+ 0·2	48·9	+ 0·5	49·9	+ 0·3	51·5	+ 0·2	51·4	+ 0·3	52·9	+ 0·5	50·9	+ 0·3	50·4	+ 0·5	51·4	+ 0·7	52·4	+ 0·8	50·9	+ 0·6	52·5	+ 0·8	51·5	+ 0·7	53·6	+ 0·5	51·2	+ 0·5
1901-1905	47·4	- 0·2	48·0	- 0·4	49·6	0·0	51·1	- 0·2	50·5	- 0·6	51·8	- 0·6	50·2	+ 0·4	49·6	- 0·3	50·5	- 0·2	51·5	- 0·1	49·9	- 0·4	51·5	- 0·2	50·6	- 0·2	53·1	0·0	50·4	- 0·3
1906-1910	46·9	- 0·7	47·6	- 0·8	49·8	+ 0·2	51·3	0·0	50·8	- 0·3	51·7	- 0·7	50·4	- 0·2	49·4	- 0·5	50·1	- 0·6	50·9	- 0·7	49·4	- 0·9	51·1	- 0·6	50·2	- 0·6	52·8	- 0·3	50·3	- 0·4
30 years average	**47·6**	—	**48·4**	—	**49·6**	—	**51·3**	—	**51·1**	—	**52·4**	—	**50·6**	—	**49·9**	—	**50·7**	—	**51·6**	—	**50·3**	—	**51·7**	—	**50·8**	—	**53·1**	—	**50·7**	—
1911	48·7	+ 1·1	49·8	+ 1·4	51·5	+ 1·9	52·9	+ 1·6	52·7	+ 1·6	52·9	+ 0·5	52·0	+ 1·4	51·1	+ 1·2	52·0	+ 1·3	52·6	+ 1·0	50·9	+ 0·6	52·8	+ 1·1	51·9	+ 1·1	53·6	+ 0·5	52·0	+ 1·3
1912	48·0	+ 0·4	49·0	+ 0·6	50·8	+ 1·2	53·1	+ 1·8	52·2	+ 1·1	53·2	+ 0·8	51·7	+ 1·1	50·6	+ 0·7	51·3	+ 0·6	52·3	+ 0·7	50·8	+ 0·5	52·2	+ 0·5	51·4	+ 0·6	54·7	+ 1·6	51·6	+ 0·9

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1911.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEAN, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
LUSTRA.*			%			%			%			%			%			%			%			%			%			%			%			%			%			%			%
1881-1885	*·46*	4·9	*98*	*·50*	5·5	*98*	*·56*	6·1	*105*	·60	6·6	104	·52	5·8	100	·58	6·4	98	·55	6·1	101	·54	5·9	100	·54	6·0	99	·57	6·2	*98*	·50	5·5	101	·56	6·1	103	·54	6·0	100	·70	7·7	102	·54	6·0	100
1886-1890	*·41*	4·5	*89*	·51	5·6	100	*·48*	5·4	*92*	·53	5·9	92	·48	5·2	91	·56	6·4	106	·56	6·1	104	*·55*	6·1	*101*	*·63*	6·9	*108*	·52	5·7	104	·56	6·1	103	·56	6·2	114	·75	8·3	101	·57	6·3	105
1891-1895	*·51*	5·6	*110*	*·55*	6·0	*108*	*·57*	6·3	*107*	·59	6·4	102	·56	6·2	108	·64	7·0	108	·58	6·4	106	·56	6·1	104	*·55*	6·1	*101*	*·63*	6·9	*108*	·52	5·7	104	·56	6·1	103	·56	6·2	114	·75	8·3	101	·57	6·3	105
1896-1900	*·47*	5·2	*102*	*·50*	5·5	*98*	*·51*	5·6	*96*	·57	6·2	98	·53	5·8	101	·59	6·5	100	·51	5·9	99	·53	5·9	99	*·57*	6·3	*104*	*·60*	6·6	*103*	·49	5·4	98	·54	5·9	99	·55	6·1	102	·66	7·2	96	·55	6·1	101
1901-1905	·48	5·3	104	·51	5·6	100	*·56*	6·2	*105*	·59	6·5	102	·52	5·7	99	·59	6·4	100	·55	6·1	101	·55	6·1	102	·59	6·4	107	*·56*	6·2	*97*	·52	5·7	104	·54	5·9	100	·55	6·1	102	·66	7·2	96	·55	6·1	101
1906-1910	·45	4·9	97	·49	5·4	96	·50	5·5	94	·59	6·4	102	·51	5·6	97	·61	6·7	103	·54	5·9	98	·52	5·7	96	·53	5·8	96	·57	6·2	98	·47	5·2	95	·51	5·6	95	·52	5·7	96	·65	7·1	95	·53	5·8	97
30 years average	**·46**	**5·1**	—	**·51**	**5·6**	—	**·53**	**5·9**	—	**·58**	**6·3**	—	**·52**	**5·7**	—	**·59**	**6·5**	—	**·55**	**6·0**	—	**·54**	**5·9**	—	**·54**	**5·9**	—	**·58**	**6·4**	—	**·50**	**5·5**	—	**·54**	**5·9**	—	**·54**	**5·9**	—	**·68**	**7·5**	—	**·55**	**6·0**	—
1911	·48	5·3	105	·55	6·0	108	·55	6·0	103	·62	6·8	102	·53	5·8	101	·64	7·0	108	·58	6·3	105	·59	6·5	109	·59	6·4	107	·63	6·9	109	·56	6·2	113	·56	6·2	104	·59	6·4	108	·70	7·7	103	·58	6·4	107
1912	·40	4·3	86	·42	4·6	82	·48	5·2	90	·62	6·8	107	·50	5·5	96	·64	7·0	109	·53	5·8	97	·48	5·2	89	·51	5·6	93	·53	5·8	91	·42	4·7	85	·50	5·4	93	·49	5·3	90	·69	7·5	101	·51	5·5	94

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
July, 1912.

W. N. SHAW,
Director.

219 425

(26807—24.) Wt. 173—814. 450. 10/12. D & S.

FOR OFFICIAL USE.

Thirty-fifth Year.
VOL. XXIX. [*New Series.*] } APPENDIX I.

[*Price 4d.*

WEEKLY WEATHER REPORT, 1912. THIRD QUARTER.

A COLD, WET, AND CLOUDY QUARTER.[1]

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1881–1912.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
LUSTRA.* 1881–1885	56	In. 10·2	% 86	51	In. 9·3	% 111	46	In. 7·3	% 107	45	In. 7·0	% 109	45	In. 7·5	% 109	44	In. 6·6	% 100	46	In. 7·5	% 107	53	In. 12·3	% 103	49	In. 9·8	% 104	52	In. 10·0	% 110	60	In. 10·3	% 102	53	In. 10·2	% 105	53	In. 10·5	% 104	54	In. 7·6	% 107	50	In. 9·0	% 105
1886–1890	60	11·5	97	51	7·6	90	46	7·6	112	45	6·9	108	43	6·8	99	40	6 9	105	45	7·2	103	51	10·9	91	47	9·3	99	46	9·1	100	58	10·3	102	50	9·1	94	52	10·8	107	48	8·9	124	48	8·5	99
1891–1895	65	14·2	119	53	9·3	111	47	7·3	107	45	7·2	113	45	7·0	101	45	8·1	103	47	7·8	111	52	12·3	103	50	10·7	114	49	10·4	114	60	10·4	103	51	10·4	107	52	10·8	107	52	10·3	102	50	9·3	108
1896–1900	58	12·8	108	50	8·1	96	39	6·2	91	35	5·4	84	36	6·2	90	33	5·6	85	39	6·3	90	55	12·2	102	46	9·4	109	42	8·1	89	56	10·0	99	48	10·1	104	49	10·0	99	49	7·4	103	44	8·2	95
1901–1905	63	12·0	101	53	8·0	95	42	6·6	97	36	6·3	98	40	7·5	109	39	7·0	106	42	7·1	101	51	13·0	108	49	8·4	90	46	9·1	100	61	10·8	107	52	10·2	105	52	8·2	85	52	10·2	105	47	8·2	95
1906–1910	59	10·5	88	49	8·0	95	43	5·8	85	40	5·3	83	41	6·3	91	37	5·6	85	42	6·2	89	49	11·4	95	48	8·9	95	43	8·0	88	54	9·0	89	52	8·2	85	49	9·1	90	38	5·0	70	45	7·7	90
30 years average	**60**	**11·9**	—	**51**	**8·4**	—	**44**	**6·8**	—	**41**	**6·4**	—	**42**	**6·9**	—	**40**	**6·6**	—	**44**	**7·0**	—	**52**	**12·0**	—	**48**	**9·4**	—	**46**	**9·1**	—	**58**	**10·1**	—	**51**	**9·7**	—	**51**	**10·1**	—	**46**	**7·1**	—	**48**	**8·6**	—
1911	57	11·6	97	40	4·2	50	32	4·7	69	26	3·1	48	25	3·6	52	22	2·7	41	29	3·7	53	49	8·0	67	37	7·7	82	27	5·3	58	46	7·2	71	42	8·5	88	40	7·3	72	25	4·8	68	35	5·5	64
1912	48	9·9	83	43	8·8	105	51	9·2	135	48	10·7	167	46	10·0	145	44	7·7	117	46	9·3	133	44	9·6	80	51	10·7	114	50	12·4	136	47	9·5	94	55	10·2	105	49	10·5	104	52	11·7	165	47	9·9	115

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		DISTRICTS 1-5.		6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		DISTRICTS 6-10.		11. ENGLISH CHANNEL.		DISTRICTS 1-10 COMBINED.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
LUSTRA.* 1881–1885	53·7	0·0	54·8	− 0·1	56·9	− 0·2	58·5	− 0·4	57·7	− 0·3	59·5	− 0·3	57·5	− 0·2	55·5	− 0·2	56·8	− 0·5	57·7	− 0·7	55·8	− 0·3	56·8	− 0·8	56·5	− 0·5	59·5	− 1·2	57·0	− 0·4
1886–1890	52·9	− 0·8	54·5	− 0·4	56·3	− 0·8	58·2	− 0·7	57·4	− 0·6	59·2	− 0·6	57·1	− 0·6	55·0	− 0·7	56·6	− 0·7	57·8	− 0·6	55·7	− 0·4	57·2	− 0·4	56·5	− 0·5	59·8	− 0·9	56·8	− 0·6
1891–1895	53·8	+ 0·1	55·1	+ 0·2	56·9	− 0·2	58·6	− 0·3	57·8	− 0·2	59·8	0·0	57·6	+ 0·1	55·7	0·0	57·6	+ 0·3	58·2	+ 0·2	56·2	+ 1·2	57·4	+ 1·2	57·0	0·0	60·8	+ 0·1	57·3	+ 0·1
1896–1900	54·5	+ 0·8	55·7	+ 0·8	57·9	+ 0·8	60·0	+ 1·1	59·1	+ 1·1	61·4	+ 1·6	58·8	+ 0·1	56·5	+ 0·8	58·5	+ 1·2	59·9	+ 0·4	58·8	+ 1·5	58·8	+ 1·1	58·1	+ 1·1	62·4	+ 1·7	58·5	+ 1·1
1901–1905	53·8	+ 0·1	54·9	0·0	57·5	+ 0·4	59·5	+ 0·6	58·0	0·0	59·9	+ 0·1	58·0	+ 0·3	55·8	+ 0·1	57·5	+ 0·2	58·8	+ 0·4	56·9	+ 0·9	57·8	+ 0·2	57·2	+ 0·2	60·9	+ 0·2	57·6	+ 0·2
1906–1910	53·4	− 0·3	54·3	− 0·6	57·1	0·0	58·7	− 0·2	57·7	− 0·3	59·1	− 0·7	57·4	− 0·3	55·8	+ 0·1	56·9	− 0·4	58·1	− 0·3	56·0	− 0·1	57·6	0·0	56·9	0·1	60·5	+ 0·2	57·2	− 0·2
30 years average	**53·7**	—	**54·9**	—	**57·1**	—	**58·9**	—	**58 0**	—	**59·8**	—	**57·7**	—	**55·7**	—	**57·3**	—	**58·4**	—	**56·1**	—	**57·6**	—	**57·0**	—	**60·7**	—	**57·4**	—
1911	55·1	+ 1·4	56·5	+ 1·6	60·2	+ 3·1	63·3	+ 4·4	61·9	+ 3·9	63·7	+ 3·9	61·1	+ 3·4	57·7	+ 2·0	60·3	+ 3·0	62·3	+ 3·9	57·9	+ 1·8	59·9	+ 2·3	59·6	+ 2·6	64·4	+ 3·7	60·4	+ 3·0
1912	52·2	− 1·5	52·5	− 2·4	54·9	− 2·2	57·4	− 1·5	55·5	− 2·5	57·3	− 2·5	55·5	− 2·2	54·2	− 1·5	55·2	− 2·1	56·2	− 2·2	53·4	− 2·7	55·0	− 2·6	54·8	− 2·2	58·1	− 2·6	55·2	− 2·2

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1911.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. SCOTLAND, N.			1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th. hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
LUSTRA.* 1881–1885	·32	3·5	% 94	·41	4·5	% 98	·47	5·1	% 97	·50	5·5	% 93	·46	5·0	% 95	·53	5·7	% 93	·47	5·2	% 95	·44	4·8	% 98	·44	4·8	% 95	·51	5·5	% 97	·36	4·0	% 95	·43	4·7	% 98	·44	4·8	% 96	·65	7·0	% 99	·46	5·0	% 96
1886–1890	·30	3·3	88	·41	4·5	97	·45	4·8	93	·51	5·5	94	·46	5·0	96	·51	5·6	91	·47	5·1	94	·43	4·7	96	·43	4·7	93	·49	5·3	93	·36	3·9	93	·44	4·8	99	·43	4·7	95	·64	7·0	98	·45	5·0	98
1891–1895	·31	3·3	90	·41	4·5	97	·47	5·1	98	·51	5·6	95	·47	5·1	97	·54	5·9	96	·48	5·2	97	·44	4·8	99	·42	4·6	90	·49	5·4	94	·37	4·0	96	·41	4·4	92	·43	4·7	94	·64	7·0	98	·46	5·0	96
1896–1900	·39	4·2	113	·47	5·1	110	·51	5·5	106	·60	6·5	111	·53	5·8	110	·65	7·0	115	·55	6·0	110	·45	4·9	100	·51	5·5	108	·59	6·4	112	·41	4·5	108	·48	5·2	106	·49	5·3	108	·72	7·8	110	·52	5·7	109
1901–1905	·37	4·0	108	·42	4·5	98	·51	5·6	107	·58	6·3	108	·49	5·3	102	·58	6·3	108	·52	5·6	104	·47	5·2	105	·51	5·6	109	·53	5·8	109	·39	4·3	103	·44	4·8	100	·47	5·1	104	·63	6·9	97	·50	5·4	104
1906–1910	·37	4·0	107	·42	4·5	98	·47	5·1	99	·54	5·8	100	·48	5·2	99	·57	6·2	101	·50	5·4	99	·46	5·0	102	·49	5·3	104	·54	5·9	103	·41	4·5	107	·46	5·0	103	·47	5·1	104	·63	6·8	97	·48	5·2	101
30 years average	**·34**	**3·7**	—	**·42**	**4·6**	—	**·48**	**5·2**	—	**·54**	**5·9**	—	**·48**	**5·2**	—	**·56**	**6·1**	—	**·50**	**5·4**	—	**·45**	**4·9**	—	**·47**	**5·1**	—	**·53**	**5·7**	—	**·38**	**4·2**	—	**·44**	**4·8**	—	**·45**	**4·9**	—	**·65**	**7·1**	—	**·48**	**5·2**	—
1911	·43	4·7	126	·53	5·8	125	·65	7·1	136	·76	8·3	141	·68	7·4	142	·85	9·2	150	·69	7·6	140	·57	6·2	126	·36	7·2	142	·73	7·9	139	·53	5·8	139	·60	6·5	135	·62	6·7	136	·83	9·0	127	·66	7·1	138
1912	·32	3·5	94	·27	2·9	63	·30	3·2	62	·40	4·4	75	·31	3·3	64	·41	4·4	73	·34	3·6	67	·36	4·0	81	·35	3·7	73	·36	3·9	64	·34	3·7	89	·35	3·8	79	·35	3·8	78	·45	4·9	70	·35	3·7	71

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
October. 1912.

W. N. SHAW,
Director.

FOR OFFICIAL USE.

Thirty-fifth Year.
Vol. XXIX. [*New Series.*] } Appendix I.

[*Price 4d.*

WEEKLY WEATHER REPORT, 1912.

FOURTH QUARTER (OCTOBER, NOVEMBER, DECEMBER), 1912.

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1881–1912.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
Lustra. (1881-1885	68	*16·2*	*96*	54	*9·3*	*121*	55	7·3	97	59	*8·3*	*120*	55	8·6	109	52	8·9	98	55	8·5	105
1886-1890	71	*16·6*	*99*	57	8·9	97	53	7·3	97	51	*6·1*	*88*	50	7·2	91	52	8·8	97	53	7·7	95
1891-1895	67	17·4	104	53	8·8	96	54	7·2	96	55	7·7	*112*	53	8·3	105	54	10·5	115	54	8·5	105
1896-1900	69	19·2	114	57	10·2	111	53	8·1	108	49	*5·9*	*86*	49	7·5	95	47	8·2	90	51	8·0	99
1901-1905	69	*15·5*	*94*	57	8·4	91	48	7·4	99	47	*5·7*	*83*	47	6·6	84	47	7·8	86	49	7·2	89
1906-1910	70	15·3	91	57	9·8	107	54	7·6	101	54	7·9	114	56	9·1	115	54	10·5	115	55	9·0	111
30 years average	**69**	**16·8**	—	**56**	**9·2**	—	**53**	**7·5**	—	**53**	**6·9**	—	**51**	**7·9**	—	**51**	**9·1**	—	**53**	**8·1**	—
1911	64	15·7	93	64	13·0	141	66	8·7	116	62	9·7	141	64	10·1	128	62	15·4	169	63	11·4	141
1912	79	22·1	132	61	11·0	120	54	7·7	103	57	8·4	122	48	8·8	111	53	10·9	120	55	9·4	116

YEARS.	Western Districts. 6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
Lustra. (1881-1885	58	*14·5*	*96*	56	11·0	99	62	13·7	101	64	11·8	104	61	11·8	95	60	12·6	98	67	12·4	103	58	10·6	102
1886-1890	58	15·3	101	59	10·7	96	62	13·6	101	64	12·1	106	59	12·6	102	60	12·8	101	69	11·9	98	57	10·3	99
1891-1895	59	15·9	105	58	11·7	105	59	14·6	108	64	11·3	99	58	13·2	106	60	13·3	108	64	12·3	103	57	10·9	105
1896-1900	61	*15·4*	*102*	54	11·1	100	57	13·5	100	63	11·8	103	58	14·4	116	59	13·2	104	61	11·3	94	55	10·6	102
1901-1905	60	*14·7*	*97*	53	10·3	93	53	11·0	82	66	11·0	96	57	10·3	83	58	11·5	91	64	10·6	88	54	9·4	90
1906-1910	60	14·6	97	61	11·7	105	64	14·3	106	66	10·6	93	69	11·8	95	64	12·6	99	65	13·2	110	60	10·8	104
30 years average	**59**	**15·1**	—	**57**	**11·1**	—	**60**	**13·5**	—	**65**	**11·4**	—	**60**	**12·4**	—	**60**	**12·7**	—	**65**	**12·0**	—	**57**	**10·4**	—
1911	61	17·4	115	63	13·2	119	69	17·5	130	61	13·9	122	72	17·1	138	65	15·8	124	72	17·4	145	64	13·6	131
1912	67	15·3	101	60	12·4	112	58	14·7	109	65	11·8	104	69	10·6	85	64	13·0	103	67	13·3	111	60	11·2	108

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts 6-10.		11. English Channel.		Districts 1-10 combined.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
Lustra. (1881-1885	*41·6*	*− 0·8*	*41·2*	*− 0·6*	43·4	− 0·2	43·4	− 0·6	43·0	− 0·2	45·1	− 0·5	43·2	− 0·4	*43·2*	*− 0·7*	44·1	− 0·5	46·5	+ 0·3	43·9	− 0·7	45·6	− 0·5	44·7	− 0·4	49·1	− 0·7	44·0	− 0·4
1886-1890	*42·3*	*+ 0·1*	41·6	− 0·2	42·6	− 1·0	42·3	− 1·7	42·1	− 1·1	44·1	− 1·5	42·6	− 1·0	43·4	− 0·5	43·6	− 1·0	45·2	− 1·6	44·2	− 0·4	45·5	− 0·6	44·4	− 0·7	48·7	− 1·1	43·5	− 0·9
1891-1895	41·9	− 0·5	41·0	− 0·8	43·0	− 0·6	43·7	− 0·3	42·9	− 0·3	45·6	0·0	43·2	− 0·4	43·5	− 0·4	44·4	− 0·2	46·2	0·0	43·8	− 0·8	45·5	− 0·6	44·7	− 0·4	49·8	0·0	44·0	− 0·4
1896-1900	43·2	+ 0·8	42·7	+ 0·9	44·8	+ 1·2	44·9	+ 0·9	44·1	+ 0·9	46·9	+ 1·3	44·7	+ 1·1	44·9	+ 1·0	45·8	+ 1·2	47·2	+ 1·0	45·4	+ 0·8	47·1	+ 1·0	46·1	+ 1·0	51·0	+ 1·2	45·4	+ 1·0
1901-1905	*42·4*	*0·0*	41·7	− 0·1	43·4	− 0·2	43·7	− 0·3	42·7	− 0·5	45·0	− 0·6	43·3	− 0·3	43·8	− 0·1	44·2	− 0·4	45·5	− 0·7	44·7	+ 0·1	46·0	− 0·1	44·8	− 0·3	49·5	− 0·3	44·1	− 0·3
1906-1910	43·1	+ 0·7	42·7	+ 0·9	44·5	+ 0·9	45·7	+ 1·7	44·5	+ 1·3	46·6	+ 1·0	44·8	+ 1·2	44·3	+ 0·4	45·2	+ 0·6	46·8	+ 0·6	45·5	+ 0·9	46·6	+ 0·5	45·7	+ 0·6	50·5	+ 0·7	45·3	+ 0·9
30 years average	**42·4**	—	**41·8**	—	**43·6**	—	**44·0**	—	**43·2**	—	**45·6**	—	**43·6**	—	**43·9**	—	**44·6**	—	**46·2**	—	**44·6**	—	**46·1**	—	**45·1**	—	**49·8**	—	**44·4**	—
1911	42·3	− 0·1	41·6	− 0·2	44·3	+ 0·7	45·6	+ 1·6	44·4	+ 1·2	46·7	+ 1·1	44·5	+ 0·9	43·8	− 0·1	45·3	+ 0·7	47·0	+ 0·8	45·0	+ 0·4	46·0	− 0·1	45·4	+ 0·3	50·2	+ 0·4	45·0	+ 0·6
1912	42·5	+ 0·1	42·1	+ 0·3	44·2	+ 0·6	45·3	+ 1·3	44·4	+ 1·2	46·1	+ 0·5	44·4	+ 0·8	44·3	+ 0·4	45·6	+ 1·0	46·8	+ 0·6	45·7	+ 1·1	47·1	+ 1·0	45·9	+ 0·8	50·1	+ 0·3	45·2	+ 0·8

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1911.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. Scotland, N.			1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.		
	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
			%			%			%			%			%			%			%
Lustra. (1881-1885	*·14*	1·5	*100*	*·18*	2·0	*106*	*·18*	1·9	*93*	·19	2·1	90	·18	1·9	98	·18	2·1	90	·18	2·0	96
1886-1890	*·12*	1·3	*84*	*·15*	1·6	*87*	*·19*	2·1	*100*	·21	2·3	102	·18	2·0	101	·20	2·2	106	·20	2·2	105
1891-1895	*·13*	1·4	*90*	*·18*	2·0	*108*	*·20*	2·1	*103*	·20	2·2	97	·19	2·1	106	·22	2·4	106	·20	2·2	105
1896-1900	*·14*	1·5	*99*	*·16*	1·8	*95*	*·18*	2·0	*97*	·23	2·5	110	·19	2·0	103	·24	2·6	113	·20	2·2	105
1901-1905	·14	1·5	97	·17	1·9	102	*·19*	2·1	*103*	·21	2·3	100	·17	1·8	93	·20	2·2	97	·19	2·1	101
1906-1910	·14	1·6	103	·19	2·0	111	·20	2·1	103	·21	2·3	100	·18	2·0	101	·23	2·5	110	·20	2·2	105
30 years average	**·14**	**1·5**	—	**·17**	**1·9**	—	**·19**	**2·1**	—	**·21**	**2·3**	—	**·18**	**2·0**	—	**·21**	**2·3**	—	**·16**	**1·8**	—
1911	·14	1·5	101	·17	1·8	99	·19	2·0	98	·20	2·2	95	·19	2·1	104	·21	2·3	101	·19	2·1	101
1912	·11	1·2	79	·17	1·8	99	·18	1·9	93	·20	2·2	97	·18	2·0	101	·24	2·6	112	·19	2·1	102

—	Western Districts. 6. Scotland, W.			7. England, N.W. and North Wales.			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
			%			%			%			%			%			%			%			%
Lustra. (1881-1885	·16	1·8	100	·15	1·6	87	*·19*	2·1	*91*	·18	2·0	96	·21	2·3	99	·18	1·9	94	·23	2·5	86	·18	2·0	95
1886-1890	·15	1·7	96	·15	1·7	89	*·20*	2·2	*97*	·17	1·8	87	·20	2·2	95	·17	1·9	92	·27	2·9	103	·18	2·0	95
1891-1895	·18	1·9	110	*·16*	1·8	*97*	·22	2·4	*104*	·21	2·3	108	·23	2·6	111	·20	2·2	105	·27	2·9	103	·20	2·2	105
1896-1900	·16	1·8	100	·18	2·0	108	·22	2·4	*104*	·19	2·0	98	·23	2·5	110	·20	2·1	103	·26	2·8	99	·20	2·2	105
1901-1905	·16	1·8	101	·18	2·0	108	*·20*	2·2	*97*	·18	2·0	94	·20	2·2	95	·18	2·0	97	·24	2·6	93	·19	2·1	99
1906-1910	·16	1·7	99	·20	2·2	116	*·23*	2·4	107	·19	2·1	102	·20	2·2	97	·19	2·1	103	·26	2·9	102	·20	2·2	105
30 years average	**·16**	**1·8**	—	**·17**	**1·9**	—	**·21**	**2·3**	—	**·19**	**2·0**	—	**·21**	**2·3**	—	**·19**	**2·0**	—	**·26**	**2·8**	—	**·19**	**2·1**	—
1911	·16	1·8	106	·20	2·1	115	*·25*	2·5	111	·19	2·0	98	·21	2·3	99	·20	2·2	105	·23	2·5	88	·20	2·1	103
1912	·14	1·5	89	·18	2·0	109	*·22*	2·4	104	·17	1·8	87	·22	2·4	106	·19	2·0	98	·27	2·9	103	·19	2·1	100

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
January. 1913.

W. N. SHAW,
Director.

(28183—24.) Wt. 113—4. 450. 1/13. D & S.

(28427—24.) Wt. 173—814. 450. 2/13. D & S.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1912.

Thirty-fifth Year. VOL. XXIX. [*New Series.*] } APPENDIX I. VALUES FOR THE WHOLE YEAR, 1912. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-TWO YEARS, 1881–1912.

TABLE I.—RAINFALL.—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE AVERAGES FOR 30 YEARS, 1881–1910.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.	Days.	Amount.	Per cent. of average.
		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%		In.	%
LUSTRA.* 1881–1885	241	*49·2*	*95*	198	*33·3*	*107*	188	25·5	103	187	*26·0*	*110*	186	29·0	109	177	27·4	101	187	28·2	106	216	*50·6*	*105*	198	36·6	104	211	40·7	105	236	38·6	101	217	41·7	104	216	41·6	104	222	33·8	104	202	34·9	104
1885–1890	251	*50·3*	*97*	203	29·0	93	187	24·9	101	184	*22·6*	*96*	176	25·6	97	177	26·8	99	185	25·8	97	207	45·8	95	197	33·3	94	200	37·4	96	223	37·9	99	204	38·7	97	206	38·6	96	217	32·0	99	196	32·2	96
1890–1895	244	52·7	101	196	30·4	98	190	24·8	100	184	*24·0*	*102*	178	25·2	95	174	27·6	101	184	26·4	99	206	45·5	94	196	35·1	91	191	38·4	99	225	39·2	102	200	39·1	98	204	38·9	97	200	33·0	102	194	32·7	98
1895–1900	248	55·8	107	209	31·9	103	183	25·0	101	173	*22·0*	*93*	172	25·7	97	161	25·3	93	180	26·0	98	225	*49·0*	*101*	198	36·1	102	194	39·2	101	235	39·6	103	206	43·0	108	212	41·3	103	204	31·5	97	196	33·7	101
1900–1905	255	53·4	103	213	29·9	96	177	23·5	95	170	*22·4*	*95*	175	26·0	98	174	27·5	101	182	25·9	98	218	*50·3*	*104*	202	33·0	94	194	37·4	96	247	39·2	102	215	39·0	98	215	39·7	99	219	32·9	102	199	32·8	98
1905–1910	257	50·6	97	210	32·3	104	192	24·4	99	186	*24·3*	*103*	189	27·5	104	182	28·6	105	192	27·4	103	217	48·4	100	213	37·5	106	208	39·6	102	244	38·9	102	240	37·9	95	224	40·5	101	201	31·5	97	208	34·0	102
30 years average	**249**	**52·0**	**—**	**205**	**31·1**	**—**	**186**	**24·7**	**—**	**181**	**23·6**	**—**	**180**	**26·5**	**—**	**174**	**27·2**	**—**	**185**	**26·6**	**—**	**214**	**48·3**	**—**	**201**	**35·3**	**—**	**200**	**38·8**	**—**	**235**	**38·4**	**—**	**213**	**39·9**	**—**	**213**	**40·1**	**—**	**211**	**32·4**	**—**	**199**	**33·4**	**—**
1911	227	51·3	99	200	29·4	95	180	23·6	96	175	23·1	98	162	22·0	83	159	28·1	103	175	25·2	95	201	44·3	92	182	34·3	97	179	36·8	95	195	33·5	87	212	39·5	99	194	37·7	94	186	33·8	104	185	31·5	94
1912	250	55·2	106	216	33·6	108	207	31·1	126	199	29·7	126	189	34·6	121	194	32·7	120	200	32·4	122	223	47·3	98	214	39·6	112	218	48·2	124	240	39·7	103	249	42·4	110	229	43·4	108	226	41·4	128	214	37·9	114

TABLE II.—MEAN TEMPERATURE AND DIFFERENCE FROM AVERAGE FOR 30 YEARS, 1881–1910.

YEARS.	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		DISTRICTS 1-5.		6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		DISTRICTS 6-10.		11. ENGLISH CHANNEL.		DISTRICTS 1-10 COMBINED.	
	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.	°	Diff.
LUSTRA.* 1881–1885	*45·3*	*− 0·2*	*45·6*	*− 0·1*	47·3	− 0·1	48·3	0·0	48·0	+ 0·1	49·6	+ 0·1	47·8	0·0	*47·1*	*− 0·2*	48·0	− 0·2	49·5	+ 0·1	47·8	− 0·2	49·2	− 0·3	48·3	− 0·2	51·4	− 0·5	48·1	− 0·1
1885–1890	*45·2*	*− 0·3*	45·6	− 0·1	46·6	− 0·8	47·2	− 1·1	47·1	− 0·8	48·6	− 0·9	47·0	− 0·8	46·9	− 0·4	47·4	− 0·8	48·7	− 0·7	47·7	− 0·3	49·1	− 0·4	48·0	− 0·5	51·0	− 0·9	47·5	− 0·7
1890–1895	45·3	− 0·2	45·4	+ 0·3	46·9	− 0·5	47·9	− 0·4	47·7	− 0·2	49·4	− 0·1	47·5	− 0·3	47·1	− 0·2	48·2	0·0	49·3	− 0·1	47·9	+ 0·1	49·3	− 0·2	48·4	− 0·1	52·0	+ 0·1	48·0	− 0·2
1895–1900	46·1	+ 0·6	46·4	+ 0·7	48·1	+ 0·7	49·1	+ 0·8	48·8	+ 0·9	50·8	+ 1·3	48·6	+ 0·8	48·1	+ 0·8	49·2	+ 1·0	50·6	+ 1·2	48·7	+ 0·7	50·4	+ 0·9	49·4	+ 0·9	53·3	+ 1·4	49·0	+ 0·8
1900–1905	*45·6*	*+ 0·1*	45·7	0·0	47·6	+ 0·2	48·7	+ 0·4	47·9	0·0	49·5	0·0	47·9	+ 0·1	47·3	0·0	48·2	0·0	49·5	+ 1·1	48·0	0·0	49·6	+ 0·1	48·5	0·0	51·9	0·0	48·2	0·0
1905–1910	45·5	0·0	45·7	0·0	47·6	+ 0·2	48·7	+ 0·4	48·0	+ 0·1	49·3	− 0·2	47·9	+ 0·1	47·4	− 0·1	48·0	− 0·2	49·1	− 0·3	48·1	+ 0·1	49·6	+ 0·1	48·4	− 0·1	52·0	+ 0·1	48·2	0·0
30 years average	**45·5**	**—**	**45·7**	**—**	**47·4**	**—**	**48·3**	**—**	**47·9**	**—**	**49·5**	**—**	**47·8**	**—**	**47·3**	**—**	**48·2**	**—**	**49·4**	**—**	**48·0**	**—**	**49·5**	**—**	**48·5**	**—**	**51·9**	**—**	**48·2**	**—**
1911	46·5	+ 1·0	46·7	+ 1·0	49·0	+ 1·6	50·4	+ 2·1	49·7	+ 1·8	51·0	+ 1·5	48·9	+ 1·1	48·4	+ 1·1	49·8	+ 1·6	50·8	+ 1·4	48·9	+ 0·9	50·3	+ 0·8	49·6	+ 1·1	53·1	+ 1·2	49·3	+ 1·1
1912	45·6	+ 0·1	45·7	0·0	47·6	+ 0·2	49·5	+ 1·2	48·3	+ 0·4	50·0	+ 0·5	48·2	+ 0·4	47·4	+ 0·1	48·4	+ 0·2	49·7	+ 0·3	48·0	0·0	49·6	+ 0·1	48·6	+ 0·1	52·4	+ 0·5	48·4	+ 0·2

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes. (Page [V.] 1911.)

TABLE III.—BRIGHT SUNSHINE, IN THOUSAND-HOURS, AND DAILY MEANS, WITH PERCENTAGES OF AVERAGE FOR 30 YEARS, 1881–1910.

—	0. SCOTLAND, N.			1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.	Th.-hrs.	Daily Mean.	Per cent. of av.
			%			%			%			%			%			%			%			%			%			%			%			%			%			%			%			%
LUSTRA.* 1881–1885	*1·08*	3·0	97	*1·33*	3·6	*100*	*1·41*	3·8	*98*	1·54	4·2	97	1·39	3·8	99	*1·54*	4·2	*95*	1·44	3·9	97	1·33	3·6	98	1·32	3·6	94	*1·51*	4·1	*96*	1·26	3·5	88	1·45	4·0	101	1·37	3·8	98	1·89	5·2	100	1·41	3·8	97
1885–1890	*0·99*	2·7	*89*	*1·28*	3·5	*97*	*1·35*	3·7	*94*	1·48	4·1	94	1·32	3·6	94	1·45	4·0	90	1·38	3·8	93	1·32	3·6	97	1·29	3·5	91	*1·48*	4·0	*94*	1·20	3·3	94	1·43	3·9	99	1·34	3·7	95	1·84	5·0	97	1·36	3·7	94
1890–1895	*1·15*	3·1	*103*	*1·40*	3·9	*106*	*1·52*	4·2	*106*	1·59	4·4	101	1·49	4·1	106	1·70	4·6	105	1·54	4·2	104	1·42	3·9	104	*1·38*	3·8	*98*	*1·64*	4·5	*104*	1·33	3·6	104	1·47	4·0	102	1·45	4·0	103	2·02	5·5	107	1·50	4·1	103
1895–1900	*1·17*	3·2	*106*	*1·35*	3·7	*102*	*1·44*	3·9	*100*	1·64	4·5	104	1·46	4·0	104	1·71	4·7	106	1·52	4·2	103	1·34	3·7	99	1·48	4·0	105	*1·65*	4·5	*105*	1·31	3·6	102	1·49	4·1	103	1·45	4·0	103	1·94	5·3	103	1·49	4·0	103
1900–1905	1·15	3·1	103	1·28	3·5	96	*1·49*	4·1	*103*	1·63	4·4	103	1·37	3·7	97	*1·60*	4·4	*99*	1·47	4·0	100	1·38	3·8	101	1·49	4·0	106	*1·52*	4·2	*97*	1·29	3·5	101	1·40	3·8	97	1·42	3·9	101	1·80	4·9	95	1·45	4·0	100
1905–1910	1·14	3·1	103	1·34	3·7	101	1·45	4·0	101	1·61	4·4	102	1·43	3·9	101	1·70	4·7	105	1·51	4·1	102	1·36	3·7	100	1·47	4·0	104	1·62	4·4	103	1·29	3·5	101	1·42	3·9	99	1·43	3·9	101	1·87	5·1	99	1·47	3·9	101
30 years average	**1·11**	**3·0**	**—**	**1·33**	**3·6**	**—**	**1·44**	**4·0**	**—**	**1·58**	**4·3**	**—**	**1·41**	**3·8**	**—**	**1·62**	**4·4**	**—**	**1·48**	**4·0**	**—**	**1·36**	**3·7**	**—**	**1·41**	**3·8**	**—**	**1·57**	**4·3**	**—**	**1·28**	**3·5**	**—**	**1·44**	**4·0**	**—**	**1·41**	**3·9**	**—**	**1·89**	**5·2**	**—**	**1·45**	**4·0**	**—**
1911	1·26	3·4	113	1·48	4·0	111	1·60	4·4	111	1·80	4·9	114	1·59	4·3	113	1·93	5·3	119	1·68	4·6	114	1·54	4·2	113	1·68	4·6	119	1·84	5·0	117	1·52	4·2	119	1·63	4·4	113	1·64	4·5	116	2·03	5·5	107	1·66	4·5	115
1912	1·01	2·8	91	1·02	2·9	77	1·12	3·1	78	1·38	3·8	87	1·13	3·2	80	1·44	4·2	89	1·22	3·4	82	1·15	3·2	85	1·21	3·3	91	1·26	3·5	80	1·11	3·1	87	1·26	3·5	88	1·20	3·3	85	1·61	4·5	85	1·21	3·3	83

An investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 30 years average in each district is shown in clarendon type.

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
25th February, 1913.

W. N. SHAW,
Director.

WEEKLY WEATHER REPORT, 1912.

Thirty-fifth Year. VOL. XXIX. [*New Series.*] } APPENDIX II.] { RAIN-DAYS, RAINFALL, ACCUMULATED TEMPERATURE AND SUNSHINE. [*Price* 1*s.*

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAIN-DAYS IN EACH DISTRICT DURING THE YEAR 1912.

1912.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.
	Numbers of Rain-days—1912.																														
	1912.																														
1	Dec. 31-Jan. 6	7	7	5	5	4	4	5	5	4	4	5	5	4	4	6	6	5	5	5	5	6	6	5	5	5	5	4	4	5	5
2	Jan. 7-13 -	6	13	5	10	5	9	4	9	5	9	4	9	5	9	6	12	5	10	6	11	6	12	7	12	6	11	4	8	5	10
3	14-20 -	4	17	5	15	6	15	5	14	6	15	5	14	5	14	6	18	6	16	6	17	6	18	6	18	6	17	5	13	6	16
4	21-27 -	3	20	5	20	4	19	5	19	4	19	5	19	5	19	1	19	2	18	4	21	1	19	3	21	2	19	4	17	3	19
5	Jan. 28-Feb. 3	4	24	4	24	4	23	4	23	1	20	2	21	3	22	1	20	2	20	1	22	1	20	1	22	1	20	1	18	2	21
6	Feb. 4-10 -	5	29	5	29	5	28	5	28	5	25	5	26	5	27	5	25	5	25	6	28	5	25	6	28	6	26	5	23	5	26
7	11-17 -	3	32	4	33	5	33	3	31	4	29	4	30	4	31	3	28	4	29	5	33	3	28	5	33	4	30	4	27	4	30
8	18-24 -	5	37	5	38	4	37	4	35	4	33	5	35	4	35	5	33	4	33	7	40	5	33	6	39	6	36	7	34	5	35
9	Feb. 25-Mar. 2	7	44	5	43	4	41	4	39	5	38	6	41	5	40	6	39	6	39	6	46	6	39	7	46	6	42	5	39	6	41
10	Mar. 3-9 -	6	50	5	48	4	45	5	44	5	43	6	47	5	45	6	45	5	44	7	53	6	45	7	53	6	48	7	46	5	46
11	10-16 -	5	55	5	53	5	50	5	49	4	47	5	52	5	50	5	50	4	48	6	59	6	51	6	59	5	53	6	52	5	51
12	17-23 -	5	60	5	58	5	55	7	56	6	53	7	59	6	56	5	55	6	54	7	66	6	57	7	66	6	59	7	59	6	57
13	24-30 -	7	67	6	64	4	59	2	58	4	57	1	60	3	59	7	62	6	60	4	70	7	64	6	72	6	65	2	61	5	62
14	Mar. 31-Apr. 6	7	74	4	68	2	61	3	61	2	59	3	63	3	62	5	67	2	62	3	73	5	69	3	75	3	68	6	67	3	65
15	April 7-13 -	6	80	4	72	3	64	2	63	2	61	1	64	3	65	4	71	3	65	3	76	4	73	4	79	4	72	4	71	4	69
16	14-20 -	2	82	0	72	0	64	0	63	0	61	1	65	0	65	1	72	0	65	0	76	1	74	2	81	1	73	1	72	0	69
17	21-27 -	1	83	1	73	0	64	0	63	0	61	0	65	0	65	1	73	0	65	0	76	2	76	1	82	1	74	1	73	0	69
18	April 28-May 4	4	87	3	76	2	66	3	66	2	63	2	67	2	67	3	76	3	68	2	78	3	79	4	86	3	77	2	75	3	72
19	May 5-11 -	6	93	5	81	3	69	2	68	3	66	2	69	3	70	5	81	5	73	3	81	5	84	5	91	5	82	4	79	3	75
20	12-18 -	5	98	3	84	2	71	4	72	3	69	4	73	3	73	3	84	2	75	4	85	4	88	3	94	3	85	3	82	3	78
21	19-25 -	3	101	4	88	4	75	2	74	4	73	2	75	3	76	2	86	3	78	3	88	2	90	4	98	3	88	3	85	3	81
22	May 26-June 1	3	104	2	90	4	79	3	77	3	76	3	78	3	79	4	90	3	81	2	90	4	94	3	101	3	91	3	88	3	84
23	June 2-8 -	3	107	5	95	6	85	5	82	6	82	5	83	5	84	4	94	6	87	5	95	5	99	5	106	5	96	6	94	6	90
24	9-15 -	5	112	6	101	6	91	5	87	5	87	4	87	5	89	6	100	6	93	5	100	6	105	6	112	6	102	4	98	5	95
25	16-22 -	6	118	6	107	5	96	3	90	3	90	2	89	4	93	6	106	4	97	4	104	6	111	7	119	6	108	4	102	5	100
26	23-29 -	5	123	5	112	6	102	4	94	5	95	4	93	5	98	6	112	6	103	6	110	7	118	6	125	6	114	5	107	6	106
27	June 30-July 6	2	125	2	114	4	106	4	98	4	99	3	96	4	102	2	114	2	105	4	114	3	121	2	127	3	117	5	112	3	109
28	July 7-13 -	5	130	4	118	3	109	2	100	3	102	4	100	3	105	5	119	4	109	5	119	5	126	5	132	5	122	3	115	4	113
29	14-20 -	1	131	1	119	4	113	2	102	2	104	2	102	2	107	1	120	1	110	1	120	1	127	1	133	1	123	2	117	2	115
30	21-27 -	4	135	4	123	5	118	5	107	5	109	3	105	5	112	4	124	6	116	5	125	6	133	7	140	5	128	4	121	5	120
31	July 28-Aug. 3	6	141	5	128	6	124	4	111	5	114	5	110	5	117	5	129	6	122	6	131	6	139	7	147	6	134	6	127	5	125
32	Aug. 4-10 -	5	146	6	134	4	128	5	116	6	120	7	117	5	122	4	133	6	128	6	137	6	145	6	153	5	139	6	133	5	130
33	11-17 -	5	151	4	138	5	133	5	121	5	125	5	122	5	127	5	138	5	133	6	143	5	150	6	159	6	145	7	140	6	136
34	18-24 -	4	155	4	142	5	138	7	128	6	131	7	129	6	133	6	144	7	140	7	150	7	157	6	165	6	151	7	147	6	142
35	Aug. 25-31 -	5	160	5	147	6	144	6	134	5	136	5	134	6	139	4	148	5	145	5	155	5	162	6	171	5	156	6	153	5	147
36	Sept. 1-7 -	6	166	5	152	4	148	4	138	3	139	2	136	4	143	6	154	6	151	3	158	6	168	4	175	5	161	3	156	5	152
37	8-14 -	3	169	2	154	3	151	3	141	1	140	1	137	2	145	2	156	2	153	1	159	2	170	1	176	2	163	1	157	2	154
38	15-21 -	2	171	1	155	1	152	0	141	0	140	0	137	0	145	0	156	0	153	0	159	1	171	1	177	0	163	0	157	0	154
39	22-28 -	0	171	0	155	1	153	1	142	1	141	1	138	1	146	0	156	1	154	1	160	1	172	3	180	1	164	2	159	1	155
40	Sept. 29-Oct. 5	6	177	4	159	4	157	4	146	2	143	4	142	4	150	3	159	2	156	3	163	3	175	2	182	3	167	4	163	4	159
41	Oct. 6-12 -	4	181	2	161	1	158	2	148	0	143	2	144	1	151	3	162	1	157	0	163	2	177	3	185	2	169	1	164	1	160
42	13-19 -	7	188	5	166	4	162	3	151	4	147	3	147	4	155	6	168	5	162	4	167	6	183	5	190	5	174	4	168	4	164
43	20-26 -	5	193	6	172	5	167	5	156	4	151	6	153	5	160	6	174	5	167	7	174	6	189	6	196	6	180	7	175	6	170
44	Oct. 27-Nov. 2	6	199	6	178	5	172	5	161	4	155	4	157	5	165	5	179	5	172	5	179	4	193	5	201	5	185	6	181	5	175
45	Nov. 3-9 -	7	206	5	183	4	176	3	164	3	158	3	160	4	168	6	185	4	176	4	183	6	199	5	206	5	190	3	184	3	178
46	10-16 -	6	212	5	188	5	181	6	170	4	162	5	165	5	173	3	188	4	180	4	187	5	204	5	211	4	194	6	190	5	183
47	17-23 -	7	219	4	192	4	185	4	174	4	166	4	169	4	177	6	194	6	186	4	191	6	210	5	216	5	199	5	195	5	188
48	Nov. 24-30 -	6	225	4	196	5	190	5	179	4	170	5	174	4	181	4	198	5	191	4	195	5	215	5	221	5	204	6	201	4	192
49	Dec. 1-7 -	5	230	3	199	4	194	5	184	4	174	4	178	4	185	6	204	5	196	5	200	6	221	7	228	6	210	6	207	5	197
50	8-14 -	7	237	6	205	5	199	5	189	5	179	6	184	5	190	7	211	6	202	6	206	7	228	7	235	7	217	7	214	6	203
51	15-21 -	7	244	6	211	3	202	3	192	4	183	3	187	4	194	6	217	6	208	5	211	6	234	7	242	6	223	5	219	5	208
52	Dec. 22-28 -	6	250	5	216	5	207	7	199	6	189	7	194	6	200	6	223	6	214	7	218	6	240	7	249	6	229	7	226	6	214

(28428—24.) Wt. 173—814. 450. 3/13. D & S.

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF **RAINFALL** IN EACH DISTRICT DURING THE YEAR 1912.

1912.		0. Scotland, N.		Eastern Districts.										Western Districts.										11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.					
Weeks.																													
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 31 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.
		Rainfall in Inches—1912.																											
	1912.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
1	Dec. 31-Jan. 6	1·70	1·70	0·41	0·41	0·73	0·73	0·90	0·90	0·92	0·92	0·93	0·93	0·78	0·78	0·93	0·93	1·13	1·13	1·65	1·65	1·03	1·03	1·30	1·30	1·21	1·21	1·09	1·09	0·99	0·99
2	Jan. 7-13 -	0·86	2·56	0·92	1·33	0·54	1·27	0·42	1·32	0·64	1·56	0·49	1·42	0·60	1·38	1·73	2·66	0·74	1·87	1·08	2·73	1·62	2·65	1·99	3·29	1·43	2·64	0·46	1·55	1·02	2·01
3	14-20 -	0·65	3·21	0·86	2·19	0·84	2·11	0·60	1·92	1·69	3·25	1·02	2·44	1·00	2·38	1·81	4·47	1·25	3·12	1·20	3·93	0·64	3·29	0·98	4·27	1·17	3·81	0·80	2·35	1·08	3·09
4	21-27 -	0·11	3·32	0·40	2·59	0·72	2·83	0·76	2·68	0·55	3·80	0·83	3·27	0·65	3·03	0·10	4·57	0·04	3·16	0·68	4·61	0·01	3·30	0·19	4·46	0·20	4·01	0·82	3·17	0·43	3·52
5	Jan. 28-Feb. 3	0·44	3·76	0·36	2·95	0·24	3·07	0·22	2·90	0·09	3·89	0·05	3·32	0·19	3·22	0·04	4·61	0·10	3·26	0·01	4·62	0·06	3·36	0·03	4·49	0·05	4·06	0·05	3·22	0·12	3·64
6	Feb. 4-10 -	0·46	4·22	0·57	3·52	0·36	3·43	0·34	3·24	0·60	4·49	0·70	4·02	0·51	3·73	1·28	5·89	0·62	3·88	0·94	5·56	0·64	4·00	1·21	5·70	0·94	5·00	0·69	3·91	0·73	4·37
7	11-17 -	0·29	4·51	0·30	3·82	0·37	3·80	0·29	3·53	0·44	4·93	0·48	4·50	0·38	4·11	0·50	6·39	0·56	4·44	0·61	6·17	0·27	4·27	0·59	6·29	0·51	5·51	0·39	4·30	0·45	4·82
8	18-24 -	1·34	5·85	1·08	4·90	0·53	4·33	0·59	4·12	0·42	5·35	0·86	5·36	0·70	4·81	1·06	7·45	0·39	4·83	1·12	7·29	1·76	6·03	1·50	7·79	1·16	6·67	1·44	5·74	0·93	5·75
9	Feb. 25-Mar. 2	1·72	7·57	0·49	5·39	0·17	4·50	0·17	4·29	0·37	5·72	0·49	5·85	0·34	5·15	1·30	8·75	1·01	5·84	0·89	8·18	0·75	6·78	1·06	8·85	1·00	7·67	0·59	6·33	0·67	6·42
10	Mar. 3-9 -	0·82	8·39	0·36	5·75	0·53	5·03	0·87	5·16	1·26	6·98	1·18	7·03	0·84	5·99	0·99	9·74	0·92	6·76	1·82	10·00	0·64	7·42	1·61	10·46	1·20	8·87	1·72	8·05	1·02	7·44
11	10-16 -	1·01	9·40	0·42	6·17	0·65	5·68	0·33	5·49	0·70	7·68	0·40	7·43	0·50	6·49	1·00	10·74	0·69	7·45	1·35	11·35	0·64	8·06	0·65	11·11	0·87	9·74	0·82	8·87	0·68	8·12
12	17-23 -	0·77	10·17	0·82	6·99	0·67	6·35	1·23	6·72	1·18	8·86	1·71	9·14	1·12	7·61	0·67	11·41	1·05	8·50	1·90	13·25	1·21	9·27	1·10	12·21	1·19	10·93	2·51	11·38	1·15	9·27
13	24-30 -	1·95	12·12	0·72	7·71	0·18	6·53	0·04	6·76	0·15	9·01	0·02	9·16	0·22	7·83	1·75	13·16	1·13	9·63	0·31	13·56	1·21	10·48	0·66	12·87	1·01	11·94	0·06	11·44	0·62	9·89
14	Mar. 31-Apr. 6	2·57	14·69	0·44	8·15	0·18	6·71	0·19	6·95	0·13	9·14	0·18	9·34	0·23	8·06	1·09	14·25	0·36	9·99	0·39	13·95	0·17	10·65	0·31	13·18	0·47	12·41	0·41	11·85	0·35	10·24
15	April 7-13 -	2·11	16·80	0·46	8·61	0·10	6·81	0·15	7·10	0·16	9·30	0·05	9·39	0·19	8·25	0·41	14·66	0·33	10·32	0·21	14·16	0·35	11·00	0·17	13·35	0·29	12·70	0·17	12·02	0·24	10·48
16	14-20 -	0·13	16·93	0·00	8·61	0·00	6·81	0·00	7·10	0·03	9·30	0·01	9·40	0·00	8·25	0·08	14·74	0·00	10·32	0·00	14·16	0·50	11·50	0·37	14·02	0·25	12·95	0·01	12·03	0·13	10·61
17	21-27 -	0·11	17·04	0·01	8·62	0·00	6·81	0·00	7·10	0·00	9·30	0·00	9·40	0·00	8·25	0·12	14·86	0·00	10·32	0·00	14·16	0·30	11·80	0·15	14·17	0·11	13·06	0·01	12·04	0·06	10·67
18	April 28-May 4	0·48	17·52	0·17	8·79	0·07	6·88	0·18	7·28	0·15	9·45	0·08	9·48	0·13	8·38	0·33	15·19	0·22	10·54	0·10	14·26	0·37	12·17	0·22	14·39	0·25	13·31	0·05	12·09	0·19	10·86
19	May 5-11 -	1·48	19·00	0·61	9·40	0·21	7·09	0·09	7·37	0·16	9·61	0·22	9·70	0·26	8·64	0·78	15·97	0·40	10·94	0·53	14·79	0·40	12·57	0·33	14·72	0·49	13·80	0·35	12·44	0·37	11·23
20	12-18 -	0·89	19·89	0·81	10·21	0·56	7·65	0·34	7·71	0·53	10·14	0·43	10·13	0·53	9·17	0·22	16·19	0·20	11·14	0·42	15·21	0·23	12·80	0·12	14·84	0·24	14·04	0·18	12·62	0·38	11·61
21	19-25 -	0·13	20·02	0·24	10·45	1·53	9·18	0·23	7·94	1·23	11·37	0·24	10·37	0·69	9·86	0·36	16·55	0·75	11·89	0·59	15·80	0·28	13·08	0·72	15·56	0·54	14·58	0·21	12·83	0·62	12·23
22	May 26-June 1	0·20	20·22	0·11	10·56	0·48	9·66	0·28	8·22	0·61	11·98	0·47	10·84	0·39	10·25	0·46	17·01	0·37	12·26	0·47	16·27	0·35	13·43	0·34	15·90	0·40	14·98	0·67	13·50	0·39	12·62
23	June 2-8 -	0·46	20·68	0·76	11·32	1·48	11·14	1·05	9·27	1·65	13·63	1·39	12·23	1·27	11·52	0·86	17·87	1·11	13·37	1·50	17·77	0·64	14·07	1·09	16·99	1·04	16·02	2·15	15·65	1·15	13·77
24	9-15 -	0·82	21·50	1·18	12·50	1·18	12·32	0·56	9·83	0·84	14·47	1·10	13·33	0·97	12·49	1·40	19·27	1·11	14·48	1·05	18·82	1·07	15·14	0·69	17·68	1·06	17·08	0·21	15·86	1·03	14·79
25	16-22 -	1·15	22·65	0·65	13·15	0·87	13·19	0·23	10·06	0·41	14·88	0·12	13·45	0·46	12·95	2·10	21·37	0·98	15·46	0·65	19·47	1·51	16·65	1·97	19·65	1·44	18·52	0·12	15·98	0·95	15·74
26	23-29 -	0·57	23·22	0·65	13·80	1·02	14·21	0·54	10·60	0·93	15·81	0·59	14·04	0·74	13·69	1·04	22·41	1·10	16·56	1·63	21·10	1·44	18·09	1·84	21·49	1·41	19·93	0·52	16·50	1·07	16·81
27	June 30-July 6	0·28	23·50	0·50	14·30	0·69	14·90	0·83	11·43	0·61	16·42	0·61	14·65	0·65	14·34	0·11	22·52	0·24	16·80	0·57	21·67	0·21	18·30	0·18	21·67	0·26	20·19	0·57	17·07	0·46	17·27
28	July 7-13 -	0·93	24·43	0·50	14·80	0·50	15·40	0·10	11·53	0·17	16·59	0·21	14·86	0·30	14·64	1·05	23·57	0·53	17·33	0·46	22·13	0·89	19·19	0·80	22·47	0·75	20·94	0·79	17·86	0·52	17·79
29	14-20 -	0·02	24·45	0·01	14·81	0·73	16·13	0·65	12·18	0·33	16·92	0·20	15·06	0·38	15·02	0·10	23·67	0·01	17·34	0·11	22·24	0·18	19·37	0·15	22·62	0·11	21·05	0·19	18·05	0·26	18·04
30	21-27 -	0·65	25·10	0·85	15·66	1·02	17·15	0·84	13·02	1·50	18·42	0·37	15·43	0·92	15·94	0·69	24·36	1·49	18·83	1·19	23·43	1·61	20·98	2·68	25·30	1·53	22·58	1·36	19·41	1·22	19·27
31	July 28-Aug. 3	1·34	26·44	0·75	16·41	1·54	18·69	0·55	13·57	1·54	19·96	0·89	16·32	1·05	16·99	1·03	25·39	2·55	21·38	2·30	25·73	1·28	22·26	1·36	26·66	1·70	24·28	1·84	21·25	1·38	20·65
32	Aug. 4-10 -	1·31	27·75	1·93	18·34	0·84	19·53	0·80	14·37	1·44	21·40	1·35	17·67	1·27	18·26	1·12	26·51	1·07	22·45	1·90	27·63	1·32	23·58	1·07	27·73	1·30	25·58	1·86	23·11	1·28	21·93
33	11-17 -	0·66	28·41	0·58	18·92	0·41	19·94	0·34	14·71	0·56	21·96	0·75	18·42	0·53	18·79	0·51	27·02	0·93	23·38	1·41	29·04	0·81	24·39	0·62	28·35	0·85	26·43	2·14	25·25	0·69	22·62
34	18-24 -	1·42	29·83	1·07	19·99	1·05	20·99	1·80	16·51	1·58	23·54	1·49	19·91	1·40	20·19	0·96	27·98	1·79	25·17	2·57	31·61	1·48	25·87	1·62	29·97	1·68	28·11	1·50	26·75	1·54	24·16
35	Aug. 25-31 -	0·82	30·65	0·75	20·74	1·53	22·52	3·96	20·47	1·87	25·41	1·59	21·50	1·94	22·13	1·40	29·38	0·92	26·09	1·41	33·02	1·04	26·91	0·97	30·94	1·15	29·26	0·96	27·71	1·54	25·70
36	Sept. 1-7 -	2·28	32·93	1·02	21·76	0·53	23·05	0·22	20·69	0·20	25·61	0·10	21·60	0·42	22·55	2·56	31·94	0·96	27·05	0·22	33·24	0·75	27·66	0·23	31·17	0·94	30·20	0·22	27·93	0·68	26·38
37	8-14 -	0·13	33·06	0·78	22·54	0·36	23·41	0·56	21·25	0·14	25·75	0·06	21·66	0·38	22·93	0·07	32·01	0·13	27·18	0·01	33·25	0·06	27·72	0·04	31·21	0·06	30·26	0·02	27·95	0·22	26·60
38	15-21 -	0·05	33·11	0·06	22·60	0·01	23·42	0·00	21·25	0·00	25·75	0·00	21·66	0·01	22·94	0·00	32·01	0·00	27·18	0·00	33·25	0·01	27·73	0·02	31·23	0·01	30·27	0·00	27·95	0·01	26·61
39	22-28 -	0·00	33·11	0·00	22·60	0·01	23·43	0·05	21·30	0·08	25·83	0·09	21·75	0·04	22·98	0·00	32·01	0·04	27·22	0·23	33·48	0·02	27·75	0·50	31·73	1·16	30·43	0·21	28·16	0·10	26·71
40	Sept. 29-Oct. 5	0·48	33·59	1·56	24·16	1·11	24·54	1·87	23·17	0·82	26·65	3·00	24·75	1·67	24·65	0·25	32·26	0·39	27·61	1·43	34·91	0·20	27·95	0·23	31·96	0·50	30·93	2·19	30·35	1·09	27·80
41	Oct. 6-12 -	0·86	34·45	0·05	24·21	0·02	24·56	0·02	23·19	0·00	26·65	0·01	24·76	0·02	24·67	0·14	32·40	0·01	27·62	0·00	34·91	0·19	28·14	0·27	32·23	0·13	31·06	0·01	30·36	0·08	27·88
42	13-19 -	2·46	36·91	0·64	24·85	0·22	24·78	0·17	23·36	0·23	26·88	0·12	24·88	0·28	24·95	2·18	34·58	1·11	28·73	0·45	35·36	0·96	29·10	0·69	32·92	1·08	32·14	0·43	30·79	0·68	28·56
43	20-26 -	0·79	37·70	1·32	26·17	1·20	25·98	0·75	24·11	1·28	28·16	1·23	26·11	1·16	26·11	1·32	35·90	2·16	30·89	1·76	37·12	1·12	30·22	1·30	34·22	1·53	33·67	2·08	32·87	1·35	29·91
44	Oct. 27-Nov. 2	1·14	38·84	1·36	27·53	0·88	26·86	0·83	24·94	1·33	29·49	1·35	27·46	1·15	27·26	0·97	36·87	0·85	31·74	2·10	39·22	0·72	30·94	0·89	35·11	1·11	34·78	1·42	34·29	1·13	31·04
45	Nov. 3-9 -	1·60	40·44	0·51	28·04	0·41	27·27	0·23	25·17	0·28	29·77	0·26	27·72	0·34	27·60	1·53	38·40	0·89	32·63	0·45	39·67	1·33	32·27	0·50	35·61	0·94	35·72	0·42	34·71	0·64	31·68
46	10-16 -	1·23	41·67	0·70	28·74	1·07	28·34	1·00	26·17	0·38	30·15	0·21	27·93	0·67	28·27	0·59	38·99	0·64	33·27	0·53	40·20	0·71	32·98	0·30	35·91	0·55	36·27	0·59	35·30	0·61	32·29
47	17-23 -	1·50	43·17	0·17	28·91	0·13	28·47	0·27	26·44	0·18	30·33	0·30	28·23	0·21	28·48	0·80	39·79	0·70	33·97	0·37	40·57	0·36	33·34	0·34	36·25	0·51	36·78	0·33	35·63	0·36	32·65
48	Nov. 24-30 -	2·86	46·03	1·22	30·13	0·73	29·20	0·85	27·29	1·12	31·45	1·17	29·40	1·02	29·50	1·54	41·33	1·42	35·39	1·58	42·15	1·12	34·46	1·20	37·45	1·37	38·15	1·81	37·44	1·20	33·85
49	Dec. 1-7 -	1·53	47·56	0·28	30·41	0·46	29·66	0·36	27·65	0·41	31·86	0·44	29·84	0·39	29·89	0·87	42·20	0·62	36·01	0·63	42·78	1·12	35·58	1·14	38·59	0·88	39·03	0·42	37·86	0·62	34·47
50	8-14 -	3·17	50·73	1·16	31·57	0·42	30·08	0·53	28·18	0·76	32·62	0·76	30·60	0·73	30·62	1·79	43·99	1·80	37·81	1·78	44·56	1·42	37·00	1·29	39·88	1·62	40·65	0·98	38·84	1·17	35·64
51	15-21 -	2·66	53·39	1·15	32·72	0·25	30·33	0·30	28·48	0·53	33·15	0·52	31·12	0·55	31·17	2·01	46·00	0·87	38·68	1·07	45·63	1·67	38·67	1·24	41·12	1·37	42·02	0·59	39·43	0·96	36·60
52	Dec. 22-28 -	1·85	55·24	0·87	33·59	0·75	31·08	1·26	29·74	1·47	34·62	1·58	32·70	1·18	32·35	1·28	47·28	0·90	39·58	2·59	48·22	1·01	39·68	1·24	42·36	1·40	43·42	1·99	41·42	1·29	37·89

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1912.

1912.		0. Scotland, N.		Eastern Districts.												Western Districts.																11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.											
Weeks.																																			
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.
DAY-DEGREES ABOVE 42° FAHRENHEIT—1912.																																			
	1912.																																		
1	Dec. 31-Jan. 6	15	15	10	10	21	21	21	21	23	23	24	24	20	20	18	18	22	22	29	29	22	22	32	32	25	25	45	45	23	23				
2	Jan. 7-13 -	5	20	1	11	1	22	7	28	7	30	14	38	6	26	6	24	10	32	28	57	24	46	30	62	20	45	39	84	13	36				
3	14-20 -	4	24	0	11	0	22	1	29	0	30	7	45	2	28	2	26	2	34	12	69	19	65	26	88	12	57	34	118	7	43				
4	21-27 -	0	24	0	11	0	22	0	29	0	30	2	47	0	28	0	26	0	34	0	69	0	65	3	91	0	57	24	142	0	43				
5	Jan. 28-Feb. 3	0	24	0	11	0	22	0	29	0	30	0	47	0	28	0	26	0	34	0	69	0	65	0	91	0	57	2	144	0	43				
6	Feb. 4-10 -	0	24	0	11	0	22	2	31	0	30	8	55	2	30	0	26	0	34	9	78	5	70	13	104	6	63	26	170	4	47				
7	11-17 -	19	34	7	18	9	31	21	52	20	50	23	78	16	46	12	38	20	54	25	103	25	95	29	133	22	85	39	209	19	66				
8	18-24 -	13	47	25	43	31	62	32	84	34	84	31	109	30	76	23	61	29	83	31	134	27	122	31	164	28	113	52	261	29	95				
9	Feb. 25-Mar. 2	27	74	32	75	39	101	48	132	43	127	46	155	42	118	30	91	41	124	44	178	37	159	45	209	40	153	60	321	41	136				
10	Mar. 3-9 -	13	87	17	92	24	125	29	161	28	155	30	185	26	144	20	111	24	148	29	207	27	186	31	240	26	179	37	358	26	162				
11	10-16 -	24	111	29	121	31	156	30	191	31	186	30	215	30	174	26	137	29	177	29	236	29	215	38	278	30	209	37	395	30	192				
12	17-23 -	11	122	10	131	13	169	27	218	17	203	27	242	19	193	14	151	15	192	25	261	16	231	30	308	20	229	32	427	19	211				
13	24-30 -	23	145	33	164	42	211	55	273	46	249	55	297	46	239	27	178	34	226	48	309	34	265	47	355	38	267	57	484	42	253				
14	Mar. 31-April 6	22	167	35	199	40	251	49	322	47	296	42	339	43	282	30	208	35	261	34	343	37	302	43	398	36	303	43	527	40	293				
15	April 7-13 -	8	175	17	216	32	283	36	358	39	335	38	377	32	314	25	233	29	290	33	376	30	332	36	434	30	333	46	573	31	324				
16	14-20 -	46	221	62	278	55	338	55	413	62	397	58	435	58	372	49	282	56	346	52	428	56	388	53	487	53	386	64	637	55	379				
17	21-27 -	47	268	59	337	54	392	59	472	72	469	70	505	63	435	71	353	69	415	74	502	56	444	63	550	67	453	89	726	65	444				
18	April 28-May 4	33	301	44	381	41	433	50	522	51	520	52	557	47	482	44	397	41	456	53	555	48	492	67	617	51	504	71	797	49	493				
19	May 5-11 -	60	361	74	455	95	528	116	638	109	629	109	666	101	583	74	471	88	544	96	651	84	576	104	721	89	593	109	906	95	588				
20	12-18 -	39	400	54	509	63	591	83	721	77	706	90	756	73	656	52	523	62	606	77	728	49	625	62	783	60	653	97	1003	67	655				
21	19-25 -	38	438	44	553	48	639	79	800	65	771	78	834	63	719	51	574	55	661	69	797	52	677	62	845	58	711	95	1098	60	715				
22	May 26-June 1	50	488	53	606	68	707	81	881	81	852	87	921	74	793	76	650	77	738	78	875	68	745	76	921	75	786	99	1197	75	790				
23	June 2-8 -	59	547	57	663	71	778	92	973	79	931	85	1006	77	870	77	727	73	811	77	952	71	816	76	997	75	861	89	1286	78	866				
24	9-15 -	61	608	69	732	83	861	107	1080	94	1025	106	1112	92	962	90	817	90	901	95	1047	84	900	90	1087	89	950	107	1393	90	956				
25	16-22 -	67	675	81	813	108	969	128	1208	119	1144	122	1234	112	1074	93	900	105	1006	108	1155	93	993	106	1193	99	1049	122	1515	105	1061				
26	23-29 -	92	767	98	911	114	1083	129	1337	114	1258	122	1356	115	1189	103	1003	110	1116	109	1264	95	1088	101	1294	104	1153	120	1635	110	1171				
27	June 30-July 6	89	856	94	1005	90	1173	116	1453	103	1361	115	1471	104	1293	103	1106	104	1220	111	1375	95	1183	108	1402	104	1257	118	1753	104	1275				
28	July 7-13 -	94	950	111	1116	136	1309	159	1612	140	1501	154	1625	140	1433	106	1212	127	1347	122	1497	91	1274	98	1500	109	1366	130	1883	125	1400				
29	14-20 -	95	1045	106	1222	116	1425	148	1760	142	1643	160	1785	134	1567	124	1336	138	1485	156	1653	97	1371	123	1623	128	1494	145	2028	131	1531				
30	21-27 -	95	1140	95	1317	116	1541	148	1908	132	1775	144	1929	127	1694	118	1454	125	1610	132	1785	108	1479	119	1742	120	1614	135	2163	123	1654				
31	July 28-Aug. 3	69	1209	72	1389	92	1633	108	2016	92	1867	107	2036	94	1788	83	1537	89	1699	92	1877	71	1550	80	1822	83	1697	113	2276	89	1743				
32	Aug. 4-10 -	78	1287	75	1464	95	1728	113	2129	97	1964	107	2143	98	1886	84	1621	92	1791	94	1971	71	1621	76	1898	83	1780	103	2379	90	1833				
33	11-17 -	77	1364	78	1542	89	1817	93	2222	80	2044	92	2235	86	1972	90	1711	90	1881	83	2054	76	1697	85	1983	85	1865	103	2482	85	1918				
34	18-24 -	67	1431	69	1611	89	1906	106	2328	92	2136	108	2343	93	2065	81	1792	88	1969	95	2149	76	1773	85	2068	85	1950	113	2595	89	2007				
35	Aug. 25-31 -	55	1486	58	1669	85	1991	106	2434	88	2224	102	2445	88	2153	71	1863	83	2052	95	2244	77	1850	90	2158	83	2033	112	2707	86	2093				
36	Sept. 1-7 -	53	1539	55	1724	74	2065	86	2520	77	2301	90	2535	76	2229	76	1939	82	2134	90	2334	76	1926	93	2251	83	2116	106	2813	79	2172				
37	8-14 -	42	1581	47	1771	58	2123	69	2589	60	2361	70	2605	61	2290	51	1990	60	2194	74	2408	61	1987	68	2319	63	2179	95	2908	62	2234				
38	15-21 -	65	1646	70	1841	79	2202	79	2668	76	2437	83	2688	77	2367	71	2061	72	2266	84	2492	78	2065	88	2407	79	2258	108	3016	78	2312				
39	22-28 -	48	1694	50	1891	53	2255	67	2735	54	2491	62	2750	57	2424	52	2113	53	2319	64	2556	63	2128	72	2479	61	2319	89	3105	60	2372				
40	Sept. 29-Oct. 5	31	1725	32	1923	38	2293	49	2784	47	2538	50	2800	43	2467	39	2152	43	2362	44	2600	40	2168	45	2524	42	2361	79	3184	42	2414				
41	Oct. 6-12 -	48	1773	55	1978	54	2347	58	2842	61	2599	59	2859	57	2524	61	2213	57	2419	55	2655	65	2233	67	2591	61	2422	74	3258	59	2473				
42	13-19 -	36	1809	45	2023	51	2398	54	2896	54	2653	54	2913	52	2576	50	2263	59	2478	57	2712	57	2290	67	2658	58	2480	84	3342	55	2528				
43	20-26 -	22	1831	16	2039	31	2429	37	2933	33	2686	37	2950	31	2607	16	2279	29	2507	34	2746	31	2321	37	2695	29	2509	55	3397	30	2558				
44	Oct. 27-Nov. 2	17	1848	23	2062	33	2462	45	2978	35	2721	48	2998	37	2644	29	2308	33	2540	46	2792	31	2352	35	2730	35	2544	71	3468	36	2594				
45	Nov. 3-9 -	29	1877	36	2098	34	2496	34	3012	36	2757	39	3037	36	2680	45	2353	48	2588	52	2844	52	2404	64	2794	52	2596	64	3532	44	2638				
46	10-16 -	8	1885	11	2109	18	2514	18	3030	12	2769	17	3054	15	2695	20	2373	19	2607	23	2867	23	2427	25	2819	22	2618	35	3567	19	2657				
47	17-23 -	22	1907	28	2137	29	2543	26	3056	31	2800	30	3084	29	2724	28	2401	34	2641	42	2909	40	2467	50	2869	39	2657	60	3627	34	2691				
48	Nov. 24-30 -	0	1907	0	2137	3	2546	11	3067	5	2805	11	3095	6	2730	1	2402	6	2647	12	2921	6	2473	11	2880	7	2664	28	3655	7	2698				
49	Dec. 1-7 -	4	1911	3	2140	7	2553	13	3080	16	2821	31	3126	14	2744	10	2412	16	2663	34	2955	33	2506	38	2916	28	2690	38	3693	20	2718				
50	8-14 -	25	1936	31	2171	35	2588	36	3116	37	2858	42	3168	36	2780	31	2443	36	2699	39	2994	38	2544	44	2960	38	2728	54	3747	36	2754				
51	15-21 -	4	1940	4	2175	21	2609	24	3140	25	2883	27	3195	20	2800	19	2462	28	2727	29	3023	22	2566	30	2990	26	2754	43	3790	23	2777				
52	Dec. 22-28 -	7	1947	7	2182	25	2634	33	3173	31	2914	39	3234	27	2827	23	2485	27	2754	38	3061	25	2591	33	3023	29	2783	56	3846	28	2805				

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1912.

1912.		0. Scotland, N.		Eastern Districts.												Western Districts.														Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.			
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.
DAY-DEGREES BELOW 42° FAHRENHEIT—1912.																															
	1912.																														
1	Dec. 31-Jan. 6	8	8	19	19	11	11	7	7	8	8	0	0	9	9	8	8	6	6	0	0	2	2	0	0	3	3	0	0	6	6
2	Jan. 7-13 -	24	32	34	53	32	43	29	36	35	43	26	26	31	40	26	34	25	31	9	9	13	15	6	6	16	19	0	0	24	30
3	14-20 -	25	57	35	88	28	71	21	57	28	71	18	44	26	66	30	64	28	59	21	30	9	24	4	10	18	37	0	0	22	52
4	21-27 -	58	115	55	143	40	111	28	85	47	118	17	61	38	104	46	110	37	96	24	54	34	58	26	36	31	71	0	0	38	88
5	Jan. 28-Feb. 3	82	197	90	233	85	196	79	164	91	209	76	137	84	188	71	181	80	176	71	125	57	115	56	92	67	138	34	34	75	163
6	Feb. 4-10 -	46	243	61	294	48	244	33	197	47	256	30	167	44	232	41	222	38	214	30	155	31	146	28	120	34	172	7	41	39	202
7	11-17 -	26	269	29	323	18	262	6	203	10	266	3	170	13	245	20	242	11	225	4	159	11	157	6	126	10	182	0	41	11	213
8	18-24 -	21	290	15	338	8	270	4	207	6	272	0	170	6	251	11	253	6	231	0	159	13	170	4	130	7	189	0	41	7	220
9	Feb. 25-Mar. 2	6	296	5	343	1	271	0	207	0	272	0	170	1	252	0	253	0	231	0	159	1	171	0	130	0	189	0	41	1	221
10	Mar. 3-9 -	22	318	25	368	13	284	11	218	12	284	7	177	14	266	11	264	8	239	5	164	13	184	11	141	9	198	0	41	11	232
11	10-16 -	13	331	18	386	12	296	6	224	10	294	6	183	11	277	10	274	8	247	6	170	10	194	9	150	9	207	0	41	10	242
12	17-23 -	23	354	31	417	26	322	14	238	28	322	11	194	22	299	25	299	24	271	10	180	24	218	12	162	19	226	3	44	21	263
13	24-30 -	13	367	15	432	2	324	0	238	0	322	0	194	3	302	4	303	0	271	0	180	3	221	0	162	1	227	0	44	2	265
14	Mar. 31-Apr. 6	10	377	9	441	8	332	6	244	7	329	3	197	6	308	5	308	5	276	0	180	4	225	0	162	3	230	0	44	4	269
15	April 7-13 -	32	409	34	475	19	351	15	259	16	345	11	208	19	327	17	325	13	289	4	184	8	233	3	165	10	240	0	44	14	283
16	14-20 -	0	409	11	486	9	360	12	271	14	359	8	216	11	338	0	325	5	294	5	189	0	233	0	165	2	242	0	44	7	290
17	21-27 -	1	410	7	493	5	365	1	272	6	365	0	216	4	342	0	325	0	294	0	189	3	236	2	167	0	242	0	44	2	292
18	April 28-May 4	9	419	11	504	8	373	2	274	8	373	2	218	6	348	3	328	4	298	0	189	0	236	0	167	1	243	0	44	2	294
19	May 5-11 -	0	419	0	504	0	373	0	274	0	373	0	218	0	348	0	328	0	298	0	189	0	236	0	167	0	243	0	44	0	294
20	12-18 -	2	421	5	509	0	373	0	274	0	373	0	218	1	349	0	328	0	298	0	189	1	237	0	167	1	244	0	44	2	296
21	19-25 -	6	427	10	519	0	373	0	274	0	373	0	218	2	351	1	329	0	298	0	189	0	237	0	167	0	244	0	44	2	298
22	May 26-June 1	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
23	June 2-8 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
24	9-15 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
25	16-22 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
26	23-29 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
27	June 30-July 6	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
28	July 7-13 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
29	14-20 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
30	21-27 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
31	July 28-Aug. 3	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
32	Aug. 4-10 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
33	11-17 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
34	18-24 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
35	Aug. 25-31 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
36	Sept. 1-7 -	0	427	0	519	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
37	8-14 -	0	427	2	521	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
38	15-21 -	0	427	0	521	0	373	0	274	0	373	0	218	0	351	0	329	0	298	0	189	0	237	0	167	0	244	0	44	0	298
39	22-28 -	1	428	11	532	0	373	0	274	4	377	0	218	3	354	0	329	0	298	0	189	0	237	0	167	0	244	0	44	1	299
40	Sept. 29-Oct. 5	0	428	5	537	4	377	0	274	7	384	0	218	3	357	5	334	4	302	2	191	0	237	3	170	3	247	0	44	3	302
41	Oct. 6-12 -	0	428	6	543	1	378	17	291	18	402	15	233	12	369	0	334	0	302	4	195	0	237	0	170	1	248	0	44	7	309
42	13-19 -	0	428	5	548	0	378	6	297	9	411	2	235	4	373	0	334	0	302	0	195	0	237	0	170	0	248	0	44	2	311
43	20-26 -	13	441	23	581	17	395	13	310	20	431	10	245	19	392	26	360	14	316	7	202	15	252	10	180	14	262	0	44	16	327
44	Oct. 27-Nov. 2	10	451	14	595	4	399	0	310	4	435	0	245	4	396	7	367	3	319	0	202	8	260	4	184	4	266	0	44	4	331
45	Nov. 3-9 -	2	453	6	601	0	399	2	312	0	435	0	245	2	398	0	367	0	319	0	202	0	260	0	184	0	266	0	44	1	332
46	10-16 -	19	472	22	623	10	409	8	320	12	447	10	255	13	411	11	378	6	325	9	211	5	265	3	187	7	273	0	44	10	342
47	17-23 -	4	476	11	634	8	417	9	329	6	453	6	261	8	419	2	380	0	325	0	211	0	265	0	187	0	273	0	44	4	346
48	Nov. 24-30 -	55	531	55	689	32	449	25	354	34	487	23	284	34	453	38	418	29	354	19	230	29	294	26	213	28	301	0	44	31	377
49	Dec. 1-7 -	38	569	53	742	42	491	34	388	40	527	20	304	38	491	34	452	31	385	12	242	9	303	4	217	18	319	0	44	28	405
50	8-14 -	10	579	13	755	8	499	0	388	5	532	0	304	5	496	3	455	2	387	0	242	6	309	6	223	3	322	0	44	4	409
51	15-21 -	26	605	28	783	12	511	9	397	10	542	3	307	12	508	11	466	4	391	1	243	9	318	4	227	6	328	0	44	9	418
52	Dec. 22-28 -	26	631	32	815	11	522	2	399	8	550	0	307	11	519	12	478	6	397	0	243	12	330	8	235	8	336	0	44	10	428

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT REGISTERED DURING THE YEAR 1912.

1912.		0. Scotland, N.		Eastern Districts.										Western Districts.										11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.					
No. of Week.	Limiting Dates of each Week.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.
	Numbers of Hours of Bright Sunshine—1912.																												
	1912.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
1	Dec. 31-Jan. 6	4	4	7	7	6	6	6	6	4	4	4	4	5	5	4	4	4	4	4	4	3	3	6	6	4	4	4	4	5	5
2	Jan. 7-13 -	6	10	7	14	5	11	6	12	6	10	6	10	6	11	10	14	8	12	8	12	11	14	13	19	10	14	8	12	8	13
3	14-20 -	3	13	1	15	1	12	0	12	1	11	1	11	1	12	2	16	3	15	4	16	7	21	9	28	5	19	12	24	3	16
4	21-27 -	13	26	13	28	10	22	10	22	12	23	4	15	10	22	11	27	15	30	14	30	16	37	12	40	14	33	13	37	12	28
5	Jan. 28-Feb. 3	20	46	22	50	23	45	22	44	21	44	26	41	23	45	24	51	26	56	31	61	24	61	24	64	26	59	36	73	24	52
6	Feb. 4-10 -	12	58	9	59	12	57	15	59	13	57	11	52	12	57	4	55	15	71	9	70	13	74	7	71	10	69	11	84	11	63
7	11-17 -	14	72	6	65	1	58	5	64	3	60	13	65	6	63	7	62	8	79	11	81	8	82	9	80	9	78	19	103	8	71
8	18-24 -	11	83	14	79	17	75	11	75	10	70	4	69	11	74	17	79	14	93	6	87	16	98	20	100	14	92	11	114	12	83
9	Feb. 25-Mar. 2	15	98	18	97	14	89	13	88	15	85	15	84	15	89	12	91	13	106	19	106	15	113	22	122	16	108	24	138	15	98
10	Mar. 3-9 -	23	121	22	119	22	111	25	113	22	107	30	114	24	113	27	118	26	132	29	135	35	148	32	154	30	138	27	165	27	125
11	10-16 -	22	143	19	138	18	129	11	124	11	118	15	129	15	128	19	137	13	145	12	147	16	164	27	181	17	155	19	184	16	141
12	17-23 -	23	166	17	155	19	148	18	142	15	133	19	148	17	145	19	156	20	165	20	167	22	186	32	213	22	177	21	205	20	161
13	24-30 -	28	194	39	194	36	184	37	179	35	168	39	187	37	182	25	181	25	190	27	194	18	204	20	233	23	200	35	240	30	191
14	Mar. 31-Apr. 6	24	218	33	227	29	213	41	220	33	201	42	229	36	218	31	212	31	221	25	219	23	227	25	258	27	227	31	271	31	222
15	April 7-13 -	22	240	37	264	43	256	49	269	46	247	49	278	45	263	35	247	42	263	35	254	23	253	25	283	33	260	39	310	39	261
16	14-20 -	36	276	53	317	57	313	58	327	47	294	56	334	54	317	39	286	50	313	45	299	32	285	41	324	41	301	64	374	48	309
17	21-27 -	47	323	50	367	64	377	75	402	73	367	79	413	68	385	56	342	71	384	70	369	55	340	67	391	64	365	71	445	66	375
18	April 28-May 4	36	359	25	392	27	404	39	441	25	392	42	455	31	416	39	381	32	416	40	409	28	368	36	427	35	400	53	498	33	408
19	May 5-11 -	25	384	35	427	32	436	32	473	23	415	27	482	30	446	18	399	13	429	9	418	11	379	13	440	13	413	28	526	21	429
20	12-18 -	42	426	53	480	45	481	49	522	41	456	48	530	47	493	66	465	57	486	41	459	46	425	53	493	53	466	47	573	50	479
21	19-25 -	56	482	38	518	34	515	40	562	29	485	47	577	38	531	40	505	34	520	41	500	40	465	41	534	40	506	67	640	39	518
22	May 26-June 1	28	510	33	551	27	542	44	606	40	525	52	629	39	570	41	546	53	573	63	563	44	509	61	595	52	558	73	713	45	563
23	June 2-8 -	13	523	4	555	16	558	24	630	18	543	36	665	20	590	19	565	22	595	36	599	28	537	35	630	28	586	48	761	24	587
24	9-15 -	20	543	9	564	31	589	58	688	45	588	54	719	39	629	38	603	46	641	44	643	39	576	49	679	43	629	51	812	41	628
25	16-22 -	20	563	21	585	39	628	60	748	40	628	56	775	43	672	19	622	25	656	31	674	24	600	18	697	23	652	52	864	34	662
26	23-29 -	27	590	32	617	33	661	46	794	39	667	53	828	40	712	37	659	35	701	45	719	27	627	33	730	35	684	32	926	38	700
27	June 30-July 6	26	616	28	645	17	678	28	822	14	681	21	849	22	734	38	697	33	734	29	748	32	659	31	761	33	717	33	959	27	727
28	July 7-13 -	27	643	30	675	42	720	53	875	37	718	45	894	42	776	38	735	36	770	19	767	31	690	30	791	31	748	33	992	36	763
29	14-20 -	48	691	34	709	29	749	49	924	43	761	54	948	42	818	57	792	53	823	60	827	66	756	68	859	61	809	59	1051	51	814
30	21-27 -	26	717	15	724	13	762	35	959	17	778	36	984	23	841	19	811	14	837	21	848	12	768	15	874	16	825	24	1075	19	833
31	July 28-Aug. 3	19	736	18	742	18	780	31	990	23	801	32	1016	24	865	28	839	24	861	29	877	22	790	27	901	26	851	41	1116	25	858
32	Aug. 4-10 -	13	749	5	747	17	797	26	1016	22	823	27	1043	19	884	15	854	21	882	21	898	19	809	20	921	19	870	35	1151	19	877
33	11-17 -	12	761	10	757	17	814	20	1036	11	834	15	1058	14	898	15	869	18	900	12	910	21	830	18	939	17	887	21	1172	16	893
34	18-24 -	18	779	14	771	16	830	21	1057	17	851	23	1081	18	916	19	888	17	917	13	923	15	845	15	954	16	903	22	1194	17	910
35	Aug. 25-31 -	21	800	16	787	18	848	26	1083	22	873	26	1107	21	937	18	906	19	936	22	945	19	864	14	968	18	921	33	1227	20	930
36	Sept. 1-7 -	15	815	19	806	33	881	34	1117	29	902	33	1140	30	967	23	929	21	957	28	973	14	878	15	983	20	941	29	1256	25	955
37	8-14 -	30	845	22	828	14	895	16	1133	17	919	19	1159	18	985	35	964	18	975	25	999	31	909	37	1020	29	970	30	1286	24	979
38	15-21 -	18	863	26	854	36	925	21	1154	25	944	27	1186	26	1011	34	998	35	1010	41	1040	31	940	35	1055	35	1005	52	1338	30	1009
39	22-28 -	45	908	28	882	33	958	43	1198	30	974	49	1235	37	1048	24	1022	36	1046	36	1076	28	968	24	1079	30	1035	42	1380	34	1043
40	Sept. 29-Oct. 5	13	921	17	899	26	984	31	1228	28	1002	33	1268	28	1076	25	1047	32	1078	31	1107	21	989	31	1110	28	1063	32	1412	28	1071
41	Oct. 6-12 -	24	945	27	926	34	1018	47	1275	35	1037	48	1316	38	1114	30	1077	37	1115	41	1148	30	1019	35	1145	35	1098	54	1466	37	1108
42	13-19 -	10	955	14	940	21	1039	28	1303	21	1058	32	1348	23	1137	13	1090	15	1130	20	1168	14	1033	15	1160	15	1113	34	1500	19	1127
43	20-26 -	12	967	8	948	13	1052	15	1318	10	1068	17	1365	13	1150	9	1099	14	1144	19	1187	18	1051	21	1181	16	1129	17	1517	14	1141
44	Oct. 27-Nov. 2	10	977	12	960	16	1068	19	1337	17	1085	22	1387	17	1167	15	1114	16	1160	13	1200	19	1070	20	1201	17	1146	20	1537	17	1158
45	Nov. 3-9 -	5	982	8	968	5	1073	6	1343	3	1088	6	1393	6	1173	3	1117	7	1167	9	1209	0	1070	4	1205	5	1151	11	1548	5	1163
46	10-16 -	4	986	7	975	4	1077	3	1346	5	1093	3	1396	5	1178	7	1124	7	1174	11	1220	7	1077	13	1218	9	1160	12	1560	7	1170
47	17-23 -	7	993	17	992	11	1088	5	1351	6	1099	7	1403	9	1187	9	1133	8	1182	6	1226	6	1083	6	1224	7	1167	8	1568	8	1178
48	Nov. 24-30 -	6	999	14	1006	8	1096	12	1363	8	1107	10	1413	10	1197	8	1141	12	1194	13	1239	8	1091	10	1234	10	1177	11	1579	10	1188
49	Dec. 1-7 -	4	1003	7	1013	1	1097	3	1366	3	1110	4	1417	4	1201	1	1142	2	1196	6	1245	3	1094	9	1243	4	1181	8	1587	4	1192
50	8-14 -	1	1004	3	1016	3	1100	4	1370	5	1115	4	1421	4	1205	3	1145	4	1200	6	1251	6	1100	6	1249	5	1186	7	1594	5	1197
51	15-21 -	1	1005	5	1018	11	1111	8	1378	11	1126	12	1433	9	1214	4	1149	6	1206	10	1261	5	1105	7	1256	6	1192	9	1603	8	1205
52	Dec. 22-28 -	2	1007	6	1024	4	1115	2	1380	3	1129	3	1437	4	1218	3	1152	4	1210	0	1261	6	1111	7	1263	4	1196	4	1607	4	1209

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **BRIGHT SUNSHINE** IN EACH DISTRICT EXPRESSED AS **PERCENTAGES** OF THE **POSSIBLE DURATION** FOR THE YEAR 1912.

1912.		0. Scot-land, N.		Eastern Districts.												Western Districts.												11. English Channel.		Means for Districts 1-10 combined.	
	Weeks.			1. Scot-land, E.		2. England, N.E.		3. England E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scot-land, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.							
No. of Week.	Limiting Dates of each week.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.	For the Week.	From Dec. 31, 1911.
	PERCENTAGES OF POSSIBLE DURATION OF BRIGHT SUNSHINE—1912.																														
	1912.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Dec. 31-Jan. 6	9	9	16	16	12	12	11	11	8	8	8	8	10	10	8	8	7	7	8	8	5	5	11	11	8	8	7	7	10	10
2	Jan. 7-13 -	14	12	15	16	10	11	11	12	10	9	10	9	11	10	21	15	19	13	15	11	21	14	23	17	19	13	15	11	15	12
3	14-20 -	6	9	1	10	3	8	0	8	3	6	2	6	2	8	4	11	6	11	7	10	13	13	16	17	9	12	20	15	5	10
4	21-27 -	24	13	25	14	17	9	17	10	19	10	7	7	18	10	20	13	26	14	24	15	28	17	20	18	25	15	22	17	21	13
5	Jan. 28-Feb. 3	36	18	38	19	38	17	37	16	33	15	43	15	38	16	41	20	44	22	49	22	40	22	39	22	43	20	57	25	40	19
6	Feb. 4-10 -	20	19	15	18	19	16	23	17	20	16	17	15	19	17	7	17	23	21	14	20	20	23	11	21	16	19	17	23	17	19
7	11-17 -	24	20	10	17	2	15	8	15	4	14	17	15	9	15	11	16	12	19	17	20	13	21	14	19	14	19	27	24	12	17
8	18-24 -	17	19	21	17	25	16	15	15	14	14	5	14	16	16	25	17	20	20	9	18	23	21	28	21	20	19	15	23	17	17
9	Feb. 25-Mar. 2	21	20	25	19	20	16	18	16	20	15	20	14	21	16	16	17	17	20	25	19	21	21	29	21	22	19	32	24	21	18
10	Mar. 3-9 -	30	20	29	20	29	18	32	18	28	17	38	18	31	18	36	19	34	21	37	21	46	24	41	24	39	22	34	25	35	20
11	10-16 -	28	21	24	20	22	19	13	17	14	16	18	18	19	18	24	20	16	20	15	20	20	23	33	25	21	22	23	25	20	20
12	17-23 -	27	22	21	20	23	19	21	18	18	17	23	18	20	18	23	20	24	21	21	21	26	24	38	26	26	22	25	25	24	18
13	24-30 -	32	23	45	23	41	21	42	20	39	19	45	21	42	21	29	21	28	21	31	22	20	23	23	26	26	23	40	26	34	22
14	Mar. 31-Apr. 6	26	24	35	24	32	22	45	22	36	20	46	23	40	22	34	22	34	23	28	22	25	24	27	26	30	23	34	27	34	23
15	April 7-13 -	22	23	39	26	46	24	52	25	49	23	52	26	47	25	36	23	45	25	38	24	27	24	27	26	35	24	42	28	41	24
16	14-20 -	36	24	52	28	58	27	59	28	48	25	57	28	55	27	39	25	51	27	46	26	33	25	42	28	42	26	67	32	49	27
17	21-27 -	45	26	49	30	62	30	75	31	72	29	79	32	67	30	55	27	70	30	70	29	54	27	67	31	63	29	72	35	65	30
18	April 28-May 4	34	27	23	29	26	30	38	32	24	28	41	33	30	30	37	28	31	30	39	30	26	27	35	31	34	29	52	36	32	30
19	May 5-11 -	22	27	32	29	29	30	31	32	21	28	26	32	28	30	16	27	12	29	8	28	10	26	13	30	12	28	27	35	25	29
20	12-18 -	37	27	47	31	40	30	46	33	33	29	45	33	43	31	59	29	52	31	38	29	41	27	48	31	48	29	45	36	45	28
21	19-25 -	48	29	33	31	31	30	36	33	26	28	43	34	34	31	35	30	30	31	37	29	35	27	37	31	35	30	62	37	35	30
22	May 26-June 1	23	28	27	31	23	30	39	34	35	29	47	35	34	31	35	30	46	32	56	31	38	28	54	33	46	31	66	39	40	31
23	June 2-8 -	11	27	3	29	14	29	21	33	16	28	32	35	17	31	16	29	19	31	32	31	24	28	31	33	24	30	43	39	21	30
24	9-15 -	16	27	7	28	27	29	50	34	39	29	47	35	34	31	32	29	39	31	39	32	33	28	42	33	37	30	45	40	35	31
25	16-22 -	16	26	17	27	33	29	51	34	35	29	49	36	37	31	16	29	21	31	27	31	20	28	15	32	21	30	46	40	29	31
26	23-29 -	22	26	26	27	28	29	39	35	34	29	47	37	34	31	31	29	30	31	40	32	23	28	28	32	31	30	55	41	32	31
27	June 30-July 6	21	25	23	27	14	28	24	34	12	28	18	36	19	31	32	29	28	30	26	31	27	28	27	32	28	30	29	40	23	30
28	July 7-13 -	22	25	25	27	36	29	46	35	33	29	40	36	37	31	32	29	31	31	16	31	27	27	26	31	27	30	30	40	31	31
29	14-20 -	40	26	29	27	26	28	44	35	38	29	48	36	37	31	49	30	47	31	54	32	57	29	61	33	54	31	54	40	45	31
30	21-27 -	22	26	13	26	12	28	32	35	16	29	33	36	21	31	17	29	13	31	19	31	10	28	14	32	14	30	22	40	17	31
31	July 28-Aug. 3	16	25	16	26	17	27	29	35	22	28	30	36	22	30	25	29	22	30	27	31	20	28	25	32	24	30	39	40	23	30
32	Aug. 4-10 -	12	25	5	25	16	27	24	34	21	28	25	36	18	30	14	29	20	30	20	31	18	27	19	31	18	30	34	40	18	30
33	11-17 -	11	24	9	25	17	27	19	34	11	27	15	35	14	29	15	28	17	29	12	30	20	27	17	31	16	29	21	39	15	29
34	18-24 -	18	24	14	24	16	26	21	34	17	27	23	35	18	30	18	28	17	29	13	30	15	27	15	30	16	29	22	38	17	29
35	Aug. 25-31 -	21	24	16	24	18	26	27	33	23	27	28	35	22	29	19	28	20	29	23	29	19	27	15	30	19	28	34	38	21	29
36	Sept. 1-7 -	16	24	20	24	35	26	37	33	31	27	36	34	32	29	24	28	22	29	31	29	15	26	17	29	22	28	34	38	27	29
37	8-14 -	33	24	24	24	15	26	19	33	19	27	21	34	20	29	38	28	20	28	29	29	34	26	41	30	32	28	33	38	27	28
38	15-21 -	20	24	30	24	34	26	24	33	29	27	31	34	30	29	40	28	41	29	47	30	36	27	40	30	41	30	60	38	35	29
39	22-28 -	55	25	34	24	40	27	52	33	36	27	58	35	45	29	28	28	44	29	44	30	34	27	29	30	36	29	50	39	41	29
40	Sept. 29-Oct. 5	17	25	21	24	33	27	39	33	45	27	41	35	36	29	32	28	40	29	39	30	27	27	38	30	36	29	40	39	36	29
41	Oct. 6-12 -	32	25	36	24	45	27	62	34	46	28	63	35	50	29	39	28	48	30	53	31	39	27	46	30	48	29	70	39	49	29
42	13-19 -	13	24	20	24	29	27	39	34	28	28	44	35	32	30	18	28	20	29	28	31	19	27	21	30	22	29	46	38	26	29
43	20-26 -	18	24	12	24	19	27	22	34	15	27	24	35	19	30	13	28	20	29	27	31	26	27	31	30	23	29	24	39	20	29
44	Oct. 27-Nov. 2	15	24	18	24	25	27	28	34	25	27	32	35	26	29	23	28	24	29	20	31	29	27	30	30	26	29	29	39	26	29
45	Nov. 3-9 -	8	24	13	24	8	27	10	33	5	27	9	35	10	29	5	28	10	29	14	30	0	26	6	30	8	29	16	39	8	29
46	10-16 -	8	24	12	24	7	26	5	33	8	27	5	34	8	29	11	27	11	29	18	30	11	26	22	30	15	28	19	38	12	29
47	17-23 -	13	24	31	24	29	26	8	33	9	27	12	34	16	29	17	27	15	28	10	30	10	26	9	30	12	28	13	38	14	28
48	Nov. 24-30 -	11	24	28	24	15	26	22	32	15	26	18	34	19	29	16	27	21	28	23	30	14	26	18	29	19	28	19	38	19	28
49	Dec. 1-7 -	9	23	14	24	14	26	6	32	6	26	14	34	8	28	3	27	3	28	10	29	6	26	17	29	8	28	14	37	8	28
50	8-14 -	2	23	7	23	5	26	7	32	9	26	7	33	8	28	5	27	8	28	10	29	12	26	12	29	9	27	12	37	9	28
51	15-21 -	3	23	10	23	23	25	15	32	21	26	22	33	18	28	9	26	12	28	19	29	9	25	14	29	12	27	17	37	16	28
52	Dec. 22-28 -	4	23	13	23	8	25	4	31	7	26	5	33	8	28	6	26	7	27	1	29	11	25	13	29	8	27	8	37	8	28

Meteorological Office,
South Kensington, London, S.W.,

February 28th, 1913.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1912.

Thirty-fifth Year.
VOL. XXIX. [*New Series.*]

APPENDIX III.

[*Price 4d.*

SUMMARY OF GALES RECORDED AT ANEMOGRAPH STATIONS IN 1912.

TABLE I.—NUMBER OF HOURS in each Month during which the MEAN Wind Velocity was equivalent to Gale Force (17·3 metres per second, 39 miles per hour, or more; Force 8 and upwards).

District and Station.	H_a	h_a	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
	Ft.	Ft.													
0. Deerness*	188	16	89	2	5	18	0	0	0	0	0	1	15	11	141
1. Aberdeen*	120	72	0	0	0	2	0	0	0	0	0	0	0	0	2
Rosyth‡	85	73	0	1	0	8	0	0	0	0	1	2	8	15	35
2. Alnwick‡	340	70	0	0	0	0	0	0	0	0	0	0	0	0	0
South Shields‡	✗	✗	31	2	0	8	0	0	0	0	1	0	0	7	49
3. Yarmouth*	73	60	24	7	0	0	0	0	0	1	0	0	0	0	32
Gorleston‡	52	42	13	2	2	0	0	0	0	1	0	0	3	0	21
Shoeburyness‡	103	90	8	0	1	0	0	0	0	0	0	0	7	0	16
4. Pyrton Hill‡	253	45	0	0	0	0	0	0	0	0	0	0	0	0	0
5. Dover‡	271	40	0	0	5	0	0	0	0	1	0	0	9	4	19
Warlingham‡	642	33	0	0	0	0	0	0	0	0	0	0	0	0	0
Brighton‡	261	53	0	0	0	0	0	0	0	0	0	0	0	0	0
Kew*	82	65	0	0	0	0	0	0	0	0	0	0	0	0	0
South Kensington‡	123	92	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Eskdalemuir‡	849	50	3	5	0	17	0	0	0	0	3	3	23	24	78
Glasgow*	227	47	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Fleetwood*	109	44	1	1	7	15	14	0	0	0	19	0	14	5	76
Southport‡	68	50	0	2	9	12	0	0	0	5	0	0	11	26	65
Stonyhurst*	405	30	0	0	0	0	0	0	0	0	0	0	0	0	0
Holyhead*	50	25	0	3	1	3	0	0	0	0	0	1	32	6	46
Dwyran‡	57	40	0	9	1	0	0	0	0	0	0	0	11	11	32
8. Falmouth*	208	41	0	0	2	0	0	0	0	0	0	0	0	2	4
Pendennis Castle‡	256	65	26	79	79	3	0	9	3	4	25	59	39	80	406
Plymouth‡	185	86	0	0	2	0	0	0	0	0	0	8	6	11	27
9. Armagh*	246	50	0	0	0	0	0	0	0	0	0	0	0	0	0
10. Dublin, Phœnix Park†	193	38	0	0	0	0	0	0	0	0	0	0	0	0	0
Kingstown*	49	27	0	4	0	8	0	0	0	3	3	1	10	33	62
Quilty‡	—	40	3	5	3	7	0	0	0	0	0	4	12	8	42
Roche's Point‡	91	30	20	10	2	0	0	0	0	0	5	7	5	10	59
Valencia*	75	45	1	0	0	0	0	0	0	0	0	0	1	7	9
11. Scilly†	150	19	12	44	58	2	0	0	0	6	0	19	51	18	210
Gibraltar‡	1295	40	0	26	2	0	0	0	0	0	0	0	0	0	28
St. Helena†	1960	—	0	0	0	0	0	0	0	1	0	0	0	0	1

* Robinson Cup Anemometer: standard size, 9in. cups, 2ft. arms.
† Robinson Cup Anemometer: smaller size, 5in. cups, 1ft. arms.
‡ Dines Pressure Tube Anemometer.
H_a = height of vane or cups of anemometer above M.S.L.
h_a = " " " ground.

(28999—24.) Wt. 196—786. 450. 4/13. D & S.

TABLE II.—OCCASIONS OF "STRONG GALE"—When the mean velocity of the wind measured over the hour from half-an-hour before to half-an-hour after an exact hour of G.M.T. was 20·8 or more metres per second (47 or more miles per hour), Force 9 and upwards.

[The highest Mean Velocity measured in this way which has been recorded at M.O. stations in the British Isles is 39~~·3~~ m.p.s. (~~88~~ m.p.h.) at Fleetwood on ~~18th November~~ 189~~3~~.]

49 7 22 - December 4

District and Station.	Date, 1912.	Direction.	Maximum Hourly Mean.		Maximum Velocity in a gust.				Time during which velocity reached or exceeded 17·3 m.p.s. (39 miles per hour).
			Hour.	Velocity.	Time.	Direction.	Velocity.		
					H. M.		m.p.s.	m.p.h.	
0. Deerness ...	January 15–16	S.E.	19h. 16th.	24·1	—	—	—	—	14h. 30m. 15th to 11h. 30m. 18th.
	„ 17 ...	S.E.	5, 9, 11	22·8	—	—	—	—	
	April 8... ...	N.	14	23·6	—	—	—	—	14h. 30m. 8th to 1h. 30m. 9th.
	November 27 ...	N.N.W.	3	26·6	—	—	—	—	0h. 30m. to 12h. 30m.
	December 14 ...	W.S.W.	5	21·6	—	—	—	—	3h. 30m. to 7h. 30m.
1. Rosyth ...	April 8	W.	14	23·3	12 25	W.	33·5	75	9h. 30m. to 14h. 30m.
	October 27 ...	W.S.W.	16	21·0	16 0	W.S.W.	31·3	70	15h. 30m. to 17h. 30m.
	November 26 ...	N.N.W.	14	24·1	15 25	W.S.W.	38·0	85	11h. 30m. to 18h. 30m.
	December 24 ...	W.N.W.	22	21·5	22 30	W.N.N.	36·2	81	17h. 30m. 24th to 5h. 30m. 25th.
2. South Shields	January 17 ...	S.E.	8	21·9	6 45	S.E.	29·5	66	17h. 30m. 16th to 21h. 30m. 17th.
	April 8	W.	15	23·7	15 45	W.N.W.	36·2	81	10h. 30m. to 17h. 30m.
3. Great Yarmouth.	January 17 ...	E.	7, 8	21·9	—	—	—	—	2h. 30m. 17th to 2h. 30m. 18th.
Shoeburyness	„ 17 ...	E.	12	21·9	11 50	E.	22·4	50	7h. 30m. to 15h. 30m.
5. Dover... ...	November 26 ...	—	20	21·9	19 58	—	29·5	66	15h. 30m. to 21h. 30m.
6. Eskdalemuir	April 8	—	12, 13	23·3	11 20	—	34·9	78	10h. 30m. to 16h. 30m.
	November 26 ...	—	12	22·4	11 5	—	32·6	73	8h. 30m. to 16h. 30m.
	December 24 ...	—	18	23·3	17 30	—	34·9	78	14h. 30m. 24th to 3h. 30m. 25th.
7. Fleetwood ...	April 8	N.W.	21	23·3	—	—	—	—	10h. 30m. 8th to 1h. 30m. 9th.
	November 10 ...	W.N.W.	19	24·6	—	—	—	—	17h. 30m. 10th to 5h. 30m. 11th.
	„ 11 ...	N.W.	2	21·6	—	—	—	—	
Southport ...	March 20 ...	W.	5	21·0	8 10	W.	29·1	65	3h. 30m. to 8h. 30m.
	April 8	W.	13	21·5	12 50	W.	29·5	66	9h. 30m. to 17h. 30m.
	December 24 ...	S.W.	17	21·5	18 32	S.W.	29·5	66	15h. 30m. to 24h. 30m.
Holyhead ...	November 10 ...	W.N.W.	17	22·6	16 20	W.	33·5	75	15h. 30m. 10th to 9h. 30m. 11th.
Dwyran ...	„ 26 ...	—	11	25·5	10 50	—	33·5	75	6h. 30m. to 12h. 30m.
	December 24 ...	—	16	21·0	14 5	—	28·2	63	12h. 30m. to 21h. 30m.
8. Pendennis Castle.	January 15 ...	—	21	21·5	21 25	—	27·7	62	14h. 30m. 15th to 3h. 30m. 16th.
	February 5 ...	—	9	21·0	7 30	—	25·5	57	0h. 30m. to 11h. 30m.
	„ 9 ...	—	20	23·7	20 30	—	30·9	69	17h. 30m. to 21h. 30m.
	„ 10 ...	—	20	21·9	21 30	—	27·7	62	17h. 30m. 10th to 2h. 30m. 11th.
	„ 28 ...	—	23	21·9	23 15	—	30·9	69	18h. 30m. 28th to 4h. 30m. 29th.
	March 1 ...	—	8 & 15	21·9	14 5	—	28·2	63	4h. 30m. to 19h. 30m.
	„ 2 ...	—	14 & 15	21·5	14 50	—	26·8	60	9h. 30m. to 18h. 30m.
	„ 4 ...	—	21	28·6	18 0	—	43·8	98	5h. 30m. 4th to 5h. 30m. 5th.
	„ 5 ...	—	1	25·5	0 15	—	34·9	78	
	„ 8 ...	—	6	22·4	5 35	—	29·5	66	0h. 30m. to 7h. 30m.
	„ 21 ...	—	14	25·0	11 25	—	34·4	77	9h. 30m. to 17h. 30m.
	April 1	—	6	21·9	6 25	—	28·2	63	5h. 30m. to 6h. 30m.
	October 27 ...	—	3	22·8	2 45	—	28·2	63	11h. 30m. 26th to 11h. 30m. 27th.
	„ 29 ...	—	4	21·9	3 10	—	30·9	69	22h. 30m. 28th to 5h. 30m. 29th.
	„ 30 ...	—	14	22·4	13 40	—	31·3	70	10h. 30m. to 18h. 30m.
	November 25 ...	—	13 & 14	21·0	13 30	—	28·2	63	7h. 30m. to 17h. 30m.
	„ 26 ...	—	13	29·5	12 55	—	37·1	83	0h. 30m. to 15h. 30m.
	„ 29 ...	—	20	24·1	23 35	—	31·7	71	17h. 30m. 29th to 1h. 30m. 30th.
	„ 30 ...	—	1	21·9	0 55	—	28·6	64	
	December 11 ...	—	14 & 18	21·9	18 35	—	27·7	62	10h. 30m. to 19h. 30m.
	„ 13 ...	—	21	22·8	21 15	—	27·7	62	11h. 30m. 13th to 6h. 30m. 14th.
	„ 14 ...	—	22	21·5	5 20	—	28·6	64	19h. 30m. to 24h. 30m.
	„ 24 ...	—	9	21·5	9 15	—	27·7	62	6h. 30m. to 9h. 30m.
	„ 25 ...	—	23	22·8	23 20	—	27·3	61	21h. 30m. to 23h. 30m.
	„ 26 ...	—	11	31·3	9 50	—	43·8	98	6h. 30m. to 15h. 30m.
	„ 27 ...	—	19	22·8	20 35	—	28·6	64	18h. 30m. to 21h. 30m.
Plymouth ...	„ 26 ...	—	10	22·4	10 10	—	36·7	82	7h. 30m. to 13h. 30m.

TABLE II.—*continued.*—OCCASIONS OF "STRONG GALE"—Winds of Mean Velocity, 20·8 metres per second, Force 9 and upwards.

District and Station.	Date, 1912.	Direction.	Maximum Hourly Mean.		Maximum Velocity in a gust.				Time during which velocity reached or exceeded 17·3 m.p.s. (39 miles per hour).
			Hour.	Velocity.	Time.	Direction.	Velocity.		
					H. M.		m.p.s.	m.p.h.	
10. Kingstown ...	April 8	W.	11	22·9	—	—	—	—	7h. 30m. to 15h. 30m.
	November 10 ...	W.	15	21·0	—	—	—	—	13h. 30m. to 15h. 30m.
	„ 26 ...	W.S.W.	11	21·0	—	—	—	—	7h. 30m. to 12h. 30m.
	December 13–14	W.S.W.	24	21·3	—	—	—	—	20h. 30m. 13th to 10h. 30m. 14th.
	„ 24 ...	S.W.	13	22·3	—	—	—	—	11h. 30m. to 18h. 30m.
Quilty ...	February 26 ...	—	23	21·0	23 10	—	30·4	68	22h. 30m. 26th to 1h. 30m. 27th.
	November 26 ...	—	7	23·3	7 10	—	31·7	71	4h. 30m. to 9h. 30m.
	December 24 ...	—	11	27·7	10 50	—	39·3	88	9h. 30m. to 17h. 30m.
Roche's Point	October 21 ...	—	14	21·0	13 50	—	29·5	66	11h. 30m. to 16h. 30m.
	November 26 ...	—	8	21·0	8 15	—	28·6	64	5h. 30m. to 9h. 30m.
	December 24 ...	—	7	22·4	7 35	—	29·5	66	5h. 30m. to 8h. 30m.
Valencia ...	„ 24 ...	S.W.	13	23·6	—	—	—	—	9h. 30m. to 16h. 30m.
11. Scilly	February 7 ...	S.S.E.	10 & 12	22·4	11 10	S.S.E.	26·0	58	8h. 30m. to 13h. 30m.
	„ 10 ...	E.	21	21·0	20 30	E.	26·8	60	16h. 30m. 10th to 2h. 30m. 11th.
	„ 19 ...	W.N.W.	20	21·9	20 0 / 17 55	W.N.W.	27·7	62	15h. 30m. 19th to 3h. 30m. 20th.
	March 4–5 ...	W.S.W.	17	28·0	17 20	W.S.W.	32·2	72	11h. 30m. 4th to 5h. 30m. 5th.
	„ 5 ...	W.	17	22·5	16 50	W.	28·6	64	15h. 30m. to 18h. 30m.
	„ 22 ...	W.N.W.	3	22·1	2 35	W.N.W.	27·3	61	1h. 30m. to 7h. 30m.
	November 29 ...	N.W.	1	22·9	0 50	N.W.	28·2	63	0h. 30m. to 1h. 30m.
	December 26 ...	W.	11, 12	29·2	9 55	W.	39·3	88	5h. 30m. to 19h. 30m.

TABLE III (A).—HIGHEST VELOCITY in a GUST of STORM FORCE (velocity above 55 miles per hour, 24·6 metres per second, Force 10), during each of the years 1906–12.

District and Station.	1906.		1907.		1908.		1909.		1910.		1911.		1912.	
	V. m.p.h.	Date.	V. m.p.h.	Date.	V. m.p.h.	Date.	V. m.p.h.	Date.	V. m.p.h.	Date.	V. m.p.h.	Date.	V. m.p.h.	Date.
1. Aberdeen	—	—	—	—	79	Jan. 6	70	Nov. 12	66	Feb. 20	70	Feb. 17	75	Nov. 26
Rosyth	—	—	—	—	—	—	—	—	—	—	—	—	85	Nov. 26
2. Alnwick	—	—	62	Nov. 12	58	Feb. 24	66	Nov. 12 Dec. 3	64	Feb. 17	73	Nov. 5	71	Apr. 8
South Shields ...	—	—	—	—	—	—	—	—	—	—	78	Nov. 5	81	Apr. 8
3. Gorleston	—	—	—	—	64	Nov. 23	65	Dec. 3	62	Feb. 20	64	Sept. 30	61	Jan. 17
Shoeburyness ...	60	Jan. 6	67	Dec. 14	67	Feb. 22	72	Dec. 3	70	Feb. 20	61	Dec. 10, 20	61	Mar. 4
4. Pyrton Hill ...	—	—	—	—	*	*	66	Dec. 3	*	*	60	Nov. 5	58	Mar. 4
5. Dover	—	—	—	—	69	Sept. 1	67	Dec. 3	72	Jan. 11	71	Jan. 12	67	Mar. 4
Warlingham ...	—	—	—	—	—	—	—	—	*	*	*	*	60	Nov. 26
Brighton	—	—	—	—	—	—	61	Oct. 23	68	Feb. 20 21	? 64	Dec. 10	65	Dec. 26
Kew	*	*	*	*	58	June 1	59	Dec. 3	64	Feb. 20	*	*	60	Mar. 4
6. Eskdalemuir ...	—	—	—	—	—	—	—	—	—	—	90	Nov. 5	78	Apr. 8 Dec. 24
7. Southport	—	—	81	Mar. 15	81	Feb. 22	76	Dec. 3	85	Feb. 21	80	Nov. 5	66	Apr. 8 Dec. 24
Holyhead	68	Nov. 15	75	Feb. 20	81	Feb. 22	69	Dec. 3	68	Feb. 17	75	Nov. 5	75	Nov. 10
Dwyran	—	—	—	—	—	—	—	—	—	—	†71	Dec. 6, 7	75	Nov. 26
8. Pendennis	85	Jan. 6	74	Jan. 2	78	Aug. 31	79	Apr. 20	87	Feb. 19	77	Dec. 10, 13	98	Mar. 4
Plymouth	—	—	—	—	58	Feb. 27 Mar. 9	66	Oct. 23	76	Dec. 13	64	Apr. 18	82	Dec. 26
10. Quilty	—	—	—	—	—	—	—	—	—	—	78	Dec. 5	88	Dec. 24
Roche's Point ...	72	Feb. 10	68	Oct. 18	70	Mar. 6	73	Dec. 2	68	Oct. 31	88	Dec. 18	66	Oct. 21 Dec. 24
11. Scilly	81	Jan. 6	78	Feb. 20	84	Feb. 28	90	Oct. 23	86	Feb. 20	73	Dec. 13	88	Dec. 26

* No gusts of storm force.

† Station at Llaneugrad previous to July, 1911.

TABLE III.—SQUALLS WITH GUSTS OF STORM FORCE (velocity above 55 miles per hour, 24·6 metres per second, Force 10). The entries are additional to those in Table II.

[Highest Velocity in a Gust recorded at M.O. Stations in the British Isles 46·0 m.p.s. (103 miles per hour) at Pendennis, Falmouth, March 14th, 1905.]

District and Station.	Date, 1912.	Maximum Gust.				Mean Velocity for the hour in which maximum gust occurs.	
		Time of occurrence of gust.	Direction.	Velocity.			
				m.p.s.	m.p.h.	m.p.s.	m.p.h.
1. Aberdeen...	January 9 ...	4h. 10m.	S.E.	26·8	60	18·3	41
	„ 16 ...	22h. 55m.	S.E.	27·7	62	18·3	41
	„ 17 ...	5h. 15m.	S.E.	29·5	66	19·2	43
	March 27... ...	11h. 50m.	W.	26·4	59	17·4	39
	April 8	15h. 40m.	N.W.	31·7	71	18·3	41
	May 16	10h. 55m.	W.N.W.	25·0	56	16·5	37
	November 26 ...	22h. 20m.	S.W.	33·5	75	19·7	44
	„ 27 ...	0h. 35m.	S.W.	26·4	59	15·7	35
	December 14 ...	5h. 50m.	W.S.W.	25·0	56	13·4	30
	„ 25 ...	5h. 40m.	W.S.W.	25·5	57	13·4	30
Rosyth	February 23 ...	11h. 35m.	W.	28·2	63	17·0	38
	„ 27 ...	9h. 10m.	W.	25·0	56	17·4	39
	March 3... ...	16h. 15m.	W.	27·7	62	13·4	30
	„ 28... ...	11h. 5m.	W.N.W.	28·2	63	14·8	33
	April 6	11h. 0m.	W.	28·6	64	19·2	43
	September 4 ...	13h. 10m.	W.	27·7	62	16·1	36
	November 27 ...	2h. 40m.	W.	26·0	58	16·5	37
	December 11 ...	14h. 10m.	W.S.W.	28·6	64	15·7	35
	„ 13 ...	23h. 30m.	W.S.W.	27·3	61	16·5	37
	„ 14 ...	14h. 35m.	W.	32·2	72	11·6	26
	„ 15 ...	7h. 55m.	W.	27·7	62	13·9	31
	„ 25 ...	0h. 40m.	W.N.W.	33·5	75	19·7	44
	„ 31 ...	10h. 55m.	W.N.W.	25·0	56	13·4	30
2. Alnwick	January 8 ...	23h. 50m.	W.S.W.	25·0	56	14·8	33
	„ 17 ...	5h. 50m.	S.E.	25·0	56	15·7	35
	April 8	16h. 40m.	N.W.	31·7	71	17·9	40
	November 12 ...	12h. 45m.	N.W.	26·4	59	14·3	32
	„ 25 ...	5h. 40m.	S.W.	28·6	64	17·0	38
	„ 26 ...	15h. 30m.	S.W.	26·8	60	13·4	30
	December 13 ...	21h. 30m.	S.W.	26·0	58	14·8	33
	„ 14 ...	0h. 35m.	S.W.	26·0	58	13·4	30
	„ 24 ...	22h. 20m.	S.W.	30·4	68	16·5	37
	„ 25 ...	1h. 25m.	S.W.	26·4	59	15·7	35
South Shields	January 16 ...	21h. 15m.	S.E.	26·4	59	20·1	45
	February 2 ...	8h. 5m.	E.N.E.	25·0	56	19·2	43
	April 6	12h. 55m.	W.N.W.	27·3	61	18·3	41
	September 4 ...	14h. 5m.	W.	27·7	62	18·3	41
	November 10 ...	19h. 10m.	N.W.	25·5	57	14·3	32
	„ 13 ...	7h. 5m.	N.	27·3	61	14·8	33
	„ 25 ...	7h. 55m.	W.S.W.	25·5	57	16·1	36
	„ 27 ...	4h. 20m.	W.S.W.	25·0	56	11·2	25
	December 14 ...	5h. 15m.	W.N.W.	31·3	70	16·5	37
	„ 15 ...	7h. 30m.	W.	25·0	56	15·7	35
	„ 19 ...	19h. 40m.	W.S.W.	25·0	56	13·4	30
	„ 24 ...	23h. 35m.	W.	30·4	68	18·3	41
	„ 25 ...	2h. 30m.	W.	30·9	69	20·1	45
	„ 29 ...	21h. 10m.	W.	25·0	56	15·2	34
	„ 31 ...	4h. 45m.	W.	25·5	57	15·7	35
3. Gorleston...	January 17 ...	8h. 0m.	—	27·3	61	20·6	46
	March 4 ...	16h. 45m.	—	25·0	56	16·1	36
	August 26 ...	21h. 45m.	—	26·8	60	17·9	40
	November 11 ...	17h. 30m.	—	25·0	56	15·7	35
Shoeburyness	March 4 ...	17h. 35m.	—	27·3	61	17·9	40
	„ 5 ...	1h. 45m.	—	26·4	59	17·9	40
	November 11 ...	17h. 20m.	—	25·5	57	13·9	31
4. Pyrton Hill	March 4 ...	15h. 30m.	—	26·0	58	8·9	20
5. Dover	March 4 ...	15h. 30m.	—	30·0	67	15·7	35
	„ 21 ...	22h. 10m.	—	26·4	59	19·7	44
	August 6 ...	18h. 10m.	—	25·0	56	17·9	40
	November 11 ...	18h. 55m.	—	27·3	61	17·0	38
	December 13 ...	23h. 45m.	—	25·5	57	16·5	37
	„ 15 ...	2h. 5m.	—	26·0	58	14·3	32
	„ 26 ...	15h. 10m.	—	28·6	64	18·3	41

TABLE III.—*continued.*—SQUALLS WITH GUSTS OF STORM FORCE (velocity above 55 miles per hour, 24·6 metres per second, force 10). The entries are additional to those in Table II.

District and Station.	Date, 1912.	Maximum Gust.				Mean Velocity for the hour in which Maximum gust occurs.	
		Time of occurrence of gust.	Direction.	Velocity.			
				m.p.s.	m.p.h.	m.p.s.	m.p.h.
Warlingham	March 4 ...	16h. 30m.	—	26·4	59	11·6	26
	November 26 ...	13h. 58m.	—	26·8	60	15·2	34
Brighton	March 4 ...	23h. 40m.	—	26·8	60	14·8	33
	„ 5 ...	2h. 50m.	—	25·0	56	15·2	34
	November 26 ...	19h. 20m.	—	28·6	64	16·1	36
	December 26 ...	13h. 25m.	—	29·1	65	15·2	35
Kew	March 4 ...	16h. 35m.	S.W.	26·8	60	11·6	26
6. Eskdalemuir	January 3 ...	0h. 30m. and 1h. 30m.	—	25·0	56	18·8	42
	February 23 ...	9h. 40m.	—	27·7	62	17·9	40
	April 4	21h. 35m.	—	26·0	58	18·8	42
	„ 6	10h. 30m.	—	28·6	64	18·3	41
	September 4 ...	11h. 20m.	—	28·2	63	17·9	40
	October 1 ...	8h. 15m.	—	26·0	58	14·3	32
	„ 27 ...	14h. 15m.	—	27·3	61	17·4	39
	November 10 ...	18h. 55m.	—	27·7	62	15·2	34
	„ 13 ...	12h. 30m.	—	25·5	57	15·7	35
	„ 19 ...	21h. 10m.	—	29·1	65	18·8	42
	„ 20 ...	1h. 40m.	—	29·1	65	19·7	44
	„ 25 ...	8h. 5m.	—	28·2	63	13·4	30
	December 9 ...	13h. 15m.	—	26·8	60	17·9	40
	„ 11 ...	9h. 10m.	—	26·8	60	17·4	39
	„ 12 ...	19h. 10m.	—	26·0	58	15·7	35
	„ 13 ...	9h. 40m.	—	28·6	64	17·9	40
	„ 14 ...	6h. 45m.	—	31·3	70	16·5	37
	„ 15 ...	8h. 5m.	—	25·0	56	13·9	31
	„ 25 ...	2h. 30m.	—	30·4	68	19·7	44
	„ 29 ...	21h. 20m.	—	28·2	63	17·4	39
	„ 31 ...	5h. 55m.	—	25·5	57	16·5	37
7. Southport	March 20 ...	8h. 10m.	W.	29·1	65	—	—
	„ 29 ...	21h. 35m.	W.S.W.	27·3	61	17·4	39
	November 10 ...	20h. 3m.	—	29·1	65	19·7	44
	„ 11 ...	3h. 58m.	—	27·3	61	18·8	42
	„ 26 ...	12h. 10m.	—	26·0	58	16·5	37
	December 13 ...	21h. 55m.	S.W.	25·5	57	17·9	40
	„ 14 ...	3h. 15m.	S.W.	25·0	56	17·4	39
	„ 15 ...	19h. 45m.	W.	26·0	58	14·3	32
	„ 17 ...	6h. 10m.	W.	27·3	61	19·7	44
	„ 24 ...	15h. 15m.	S.W.	26·4	59	15·2	34
	„ 25 ...	1h. 20m.	W.S.W.	26·8	60	18·8	42
	„ 29 ...	18h. 50m.	W.	26·4	59	19·2	43
	„ 30 ...	1h. 5m.	W.	25·0	56	19·7	44
Holyhead	February 2 ...	11h. 30m.	N.N.E.	25·5	57	19·2	43
	„ 7 ...	15h. 30m.	S.S.E.	25·5	57	17·0	38
	„ 27 ...	4h. 25m.	W.S.W.	25·0	56	17·4	39
	March 2	1h. 20m.	W.S.W.	25·5	57	16·1	36
	„ 8	9h. 40m.	S.E.	25·0	56	16·5	37
	April 8	11h. 35m.	W.	27·7	62	18·3	31
	October 21 ...	15h. 40m.	W.N.W.	26·4	59	16·5	37
	„ 27 ...	11h. 40m.	S.S.W.	25·0	56	16·5	37
	November 24 ...	6h. 40m.	S.W.	26·4	59	17·0	38
	December 13 ...	11h. 10m.	S.W.	27·3	61	17·9	40
	„ 17 ...	15h. 20m.	S.W.	27·3	61	17·0	38
	„ 29 ...	22h. 45m.	W.	28·2	63	17·0	38
Dwyran	February 7 ...	16h. 10m.	—	27·3	61	20·1	45
	„ 27 ...	3h. 30m,	—	26·0	58	18·8	42
	„ 28 ...	22h. 30m.	—	26·4	59	18·8	42
	March 4	10h. 20m.	—	26·0	58	16·1	36
	„ 8	9h. 35m.	—	27·7	62	19·2	43
	November 10 ...	16h. 5m.	—	25·5	57	17·4	39
	„ 25 ...	9h. 40m.	—	25·5	57	19·2	43
	December 19 ...	14h. 55m.	—	26·0	58	16·5	37
8. Pendennis Castle ...	January 6 ...	7h. 35m.	—	28·2	63	20·1	45
	February 4 ...	13h. 15m.	—	26·4	59	19·2	43
	„ 7 ...	12h. 10m.	—	26·4	59	20·6	46
	„ 19 ...	23h. 20m.	—	25·0	56	14·8	33
	„ 20 ...	0h. 45m.	—	25·0	56	16·5	37
	March 19 ...	5h. 0m.	—	25·0	56	14·8	33
	„ 24 ...	1h. 5m.	—	26·8	60	17·9	40
	June 3	19h. 55m.	—	26·4	59	15·7	35
	„ 25	14h. 20m.	—	26·0	58	19·7	44

TABLE III.—*continued.*—SQUALLS WITH GUSTS OF STORM FORCE (velocity above 55 miles per hour, 24·6 metres per second, force 10). The entries are additional to those in Table II.

District and Station.	Date, 1912.	Maximum Gust.				Mean Velocity for the hour in which Maximum gust occurs.	
		Time of occurrence of gust.	Direction.	Velocity.			
				m.p.s.	m.p.h.	m.p.s.	m.p.h.
8. Pendennis Castle—*cont.*	July 29	13h. 35m.	—	25·0	56	15·2	34
	„ 31	11h. 30m.	—	25·5	57	19·2	43
	August 6 ...	6h. 25m.	—	25·5	57	17·0	38
	October 20 ...	19h. 0m.	—	27·3	61	15·7	35
	„ 21 ...	19h. 5m.	—	26·8	60	17·4	39
	„ 26 ...	16h. 15m.	—	26·0	58	18·3	41
	November 10 ...	17h. 25m.	—	27·3	61	17·4	39
	„ 11 ...	22h. 20m.	—	26·0	58	15·2	34
	„ 12 ...	16h. 50m.	—	29·1	65	15·2	34
	December 15 ...	17h. 30m.	—	25·5	57	19·7	44
	„ 19 ...	14h. 20m.	—	25·0	56	20·1	45
Plymouth	March 4	15h. 10m.	—	25·5	57	12·5	28
	October 30 ...	6h. 5m.	—	27·3	61	15·7	35
	November 11 ...	19h. 15m.	—	27·7	62	11·6	26
	„ 26 ...	15h. 5m.	—	27·3	61	20·1	45
	December 24 ...	12h. 15m.	—	26·8	60	17·4	39
10 Quilty	January 5 ...	6h. 50m.	—	26·0	58	15·7	35
	„ 15 ...	7h. 30m. & 11h. 30m.	—	26·0	58	17·9	40
	February 19 ...	15h. 50m.	—	25·0	56	18·3	41
	„ 23 ...	4h. 30m.	—	26·0	58	16·1	36
	„ 27 ...	0h. 40m.	—	27·7	62	18·8	42
	March 24 ...	0h. 25m.	—	26·4	59	17·9	40
	April 8	10h. 30m.	—	27·3	61	16·5	37
	October 20 ...	20h. 25m.	—	28·2	63	18·8	42
	„ 21 ...	14h. 55m.	—	30·0	67	17·9	40
	November 10 ...	12h. 40m.	—	27·7	62	18·3	41
	„ 11 ...	18h. 15m.	—	26·8	60	15·7	35
	„ 25 ...	6h. 30m.	—	25·0	56	18·3	41
	December 17 ...	11h. 55m.	—	33·5	75	16·5	37
	„ 26 ...	3h. 25m.	—	25·5	57	16·5	37
Roche's Point	January 8 ...	9h. 20m.	—	25·0	56	20·1	45
	„ 10 ...	17h. 35m.	—	25·5	57	16·5	37
	„ 15 ...	12h. 25m.	—	26·4	59	19·7	44
	February 19 ...	20h. 40m.	—	26·0	58	17·9	40
	October 27 ...	8h. 25m.	—	26·8	60	18·3	41
	November 11 ...	13h. 20m.	—	27·7	62	16·1	36
	December 9 ...	7h. 10m.	—	25·0	56	18·3	41
	„ 26 ...	2h. 50m.	—	29·1	65	20·6	46
11. Scilly	January 7 ...	3h. 55m.	W.N.W.	26·4	59	17·4	39
	February 7 ...	11h. 10m.	S.S.E.	26·0	58	18·3	41
	„ 10 ...	20h. 10m.	E.	28·2	63	18·3	41
	„ 19 ...	17h. 55m.	W.N.W.	27·7	62	19·2	43
	March 5 ...	1h. 20m.	W.	30·4	68	20·6	46
	„ 18 ...	21h. 40m.	W.N.W.	29·1	65	18·8	42
	„ 19 ...	2h. 25m.	W.N.W.	25·5	57	17·9	40
	„ 21 ...	12h. 40m.	W.S.W.	28·2	63	17·9	40
	„ 22 ...	3h. 35m.	W.	28·2	63	18·3	41
	October 21 ...	4h. 45m.	N.W.	29·5	66	18·3	41
	„ 31 ...	0h. 15m.	W.N.W.	25·5	57	17·9	40
	November 10 ...	21h. 40m.	W.N.W.	26·8	60	17·4	39
	„ 11 ...	6h. 0m.	N.W.	29·5	66	16·5	37
	„ 26 ...	19h. 45m.	W.N.W.	27·7	62	15·7	35
	„ 27 ...	11h. 5m.	W.	25·5	57	13·0	29
	„ 28 ...	0h. 5m.	N.W.	26·8	60	19·7	44
	December 2 ...	1h. 40m.	W.N.W.	26·0	58	16·1	36
	„ 12 ...	6h. 15m.	N.W.	26·0	58	19·2	43
	„ 25 ...	14h. 20m.	W.	28·2	63	13·4	30

TABLE IV.

RECORD OF WIND VELOCITY AT 10 ANEMOGRAPH STATIONS IN 1912.

NUMBER OF HOURS during which the MEAN Hourly Velocity came within the limits assigned for the several numbers of the Beaufort scale, with percentage for each number of the scale.

*** The numbers of the Beaufort Scale are grouped as follows :—
0, calm : 1–3, light winds : 4–5, moderate or fresh winds : 6–7, high or strong winds : 8–12, gales and storms.

Force by Beaufort Scale.	Corresponding Mean Hourly Velocity.			WESTERN AND SOUTHERN COASTS AND IRISH SEA.										EASTERN COASTS AND LONDON.							
				Valencia.		Scilly.		Falmouth.		Fleetwood.		Holyhead.		Kingstown.		Deerness.		Aberdeen.		Yarmouth.		Kew.	
	In Statute Miles per Hour.	In Feet per Second.	In Metres per Second.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.	Hours.	Per Cent.
0	less than 1.	less than 2.	less than 0·5.	302	3	181	2	164	2	36	1	29	0	202	2	46	1	104	1	64	1	369	4
1	1–3	2–5	0·5–1·5	729	8	286	3	1,275	14	520	6	485	6	560	6	474	5	997	11	445	5	1,292	15
2	4–7	6–11	2–3	1,751	20	1,231	14	2,850	32	2,044	23	1,513	17	1,601	18	1,560	18	3,471	40	2,769	32	2,987	34
3	8–12	12–18	3·5–5·5	2,149	24	1,710	20	2,364	27	2,229	25	1,730	20	1,735	20	1,860	21	2,317	27	2,739	31	2,364	27
4	13–18	19–27	6–8	2,450	28	2,288	26	1,599	19	2,142	24	2,626	30	2,368	27	2,460	28	1,338	15	1,878	21	1,480	17
5	19–24	28–36	8·5–10·5	920	11	1,360	16	406	5	1,018	12	1,413	16	1,163	13	1,183	13	346	4	477	5	250	3
6	25–31	37–46	11–14	434	5	1,087	12	107	1	536	6	791	9	915	11	806	9	173	2	192	2	34	0
7	32–38	47–56	14·5–17·3	40	1	336	4	15	0	163	2	151	2	167	2	229	3	36	0	48	1	2	0
8	39–46	57–68	17·4–20·5	6	0	164	2	4	0	51	1	41	0	56	1	99	1	2	0	28	0	—	—
9	47–54	69–80	21–24	3	0	30	0	—	—	19	0	5	0	9	0	38	1	—	—	4	0	—	—
10	55–63	81–93	24·5–28	—	—	14	0	—	—	1	0	—	—	—	—	4	0	—	—	—	—	—	—
11	64–75	94–110	28·5–33·5	—	—	2	0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	above 75	above 110	34 or above.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Number of Hours lost from various causes				—	—	95	1	—	—	25	0	—	—	8	0	25	0	—	—	140	2	6	0

TABLE V.—MAXIMUM VELOCITY in a GUST for each Month. Units : Metres per Second. (Highest velocity in a gust recorded at M.O. Stations in the British Isles : 46·0 m.p.s. at Pendennis, Falmouth, 14th March, 1905.)

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1. Aberdeen	29·5	24·6	26·4	33·1	25·0	14·3	18·8	19·7	22·4	23·7	**33·5**	25·5
Rosyth	33·5	28·2	28·2	33·5	21·0	17·0	16·1	17·0	27·7	31·3	**38·0**	36·2
2. Alnwick	25·0	17·4	20·1	**31·7**	20·1	13·4	21·9	18·8	19·7	19·7	28·6	30·4
South Shields	29·5	25·0	24·6	**36·2**	21·0	16·5	20·1	17·9	27·7	22·4	27·3	31·3
3. Gorleston	**27·3**	23·3	25·0	22·8	14·8	18·3	18·3	26·8	21·5	20·1	25·0	**21·0**
Shoeburyness	22·4	20·6	**27·3**	22·4	20·1	21·9	21·5	20·6	20·6	22·4	25·5	22 4
4. Pyrton Hill	19·2	18·8	**26·0**	22·8	16·1	17·0	13·9	16·5	14·3	14·8	18·8	19·2
5. Dover	22·8	19·7	**30·0**	24·1	18·8	18·3	21·5	25·0	21·5	24·6	29·5	28·6
Warlingham	18·8	21·5	26·4	17·9	18·8	15·7	11·2	21·0	15·2	21·0	**26·8**	24·1
Brighton	18·8	19·7	26·8	? 19·7	19·7	18·8	21·5	23·7	21·9	22·4	28·6	**29·1**
Kew	21·9	18·8	**26·8**	20·1	17·0	13·9	15·7	14·8	16·5	18·3	22·8	21·9
South Kensington ...	16·5	18·3	**19·2**	15·2	13·4	13·0	13·4	13·4	14·3	17·4	17·4	17·0
6. Eskdalemuir	25·0	27·7	24·1	**34·9**	20·1	18·3	21·5	18·8	28·2	27·3	32·6	**34·9**
7. Southport	22·4	24·6	29·1	**29·5**	21·0	20·1	16·5	24·6	22·8	22·4	29·1	**29·5**
Holyhead	23·3	25·5	25·5	27·7	17·9	18·8	19·7	19·2	20·6	26·4	33·5	**34·0**
Dwyran	24·1	27·3	27·7	22·8	17·9	21·0	20·6	20·6	18·8	24·1	**33·5**	28·2
8. Pendennis	28·2	30·9	**43·8**	28·2	20·1	26·4	25·5	25·5	24·1	31·3	37·1	**43·8**
Plymouth	17·9	20·1	25·5	19·7	17·9	21·0	20·1	20·6	22·8	27·3	27·7	**36·7**
10. Quilty	26·0	30·4	26·4	27·3	20·6	21·5	20·6	18·3	21·5	30·0	31·7	**39·3**
Roche's Point	26·4	26·0	24·6	23·7	17·9	20·6	19·7	19·7	22·4	**29·5**	28·6	**29·5**
11. Scilly	26·4	28·2	34·9	23·7	21·9	21·5	20·1	29·5	20·6	29·5	29·5	**39·3**
Gibraltar	20·6	**37·6**	23·7	21·9	16·5	22·4	16·5	16·5	18·3	17·0	22·4	21·5

TABLE VI.—MAXIMUM VALUE of the MEAN VELOCITY for an Hour measured as in Table II. Units: Metres per Second. (Highest mean velocity recorded at M.O. Stations in the British Isles: 3[illegible] m.p.s. at Fleetwood on ~~18th November~~ 22nd December, 189[illegible].)

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
0. Deerness	24·1	19·2	20·3	23·6	14·4	12·8	14·4	13·8	16·7	18·0	**26·6**	21·6
1. Aberdeen	15·7	12·1	14·1	**19·7**	13·8	8·2	9·2	11·5	12·8	13·8	16·4	12·1
Rosyth	13·9	17·4	15·2	23·3	12·1	11·2	12·1	11·6	17·4	21·0	**24·1**	21·5
2. Alnwick	16·5	12·5	10·7	16·5	10·7	7·2	11·6	10·7	11·2	10·7	**17·0**	16·5
South Shields	21·9	19·2	16·1	**23·7**	13·4	11·2	14·3	12·1	18·3	16·1	16·1	20·1
3. Yarmouth	**21·9**	19·2	13·8	11·8	9·5	11·1	10·8	17·7	16·1	12·5	15·4	13·4
Gorleston	**20·6**	18·8	18·3	14·3	10·7	14·3	13·0	17·9	15·7	15·2	17·9	15·2
Shoeburyness	**21·9**	19·2	17·9	13·0	12·1	14·8	15·7	15·7	13·9	15·7	16·5	16·5
4. Pyrton Hill	12·5	12·5	12·1	**15·2**	11·2	8·9	9·4	9·8	8·1	8·5	11·2	11·6
5. Dover	13·9	14·8	19·7	16·1	13·4	12·1	15·2	17·9	14·3	16·5	**21·9**	18·3
Warlingham	10·7	10·3	13·0	9·8	11·2	9·4	6·7	10·7	8·9	13·9	**15·2**	12·1
Brighton	10·7	12·1	15·2	11·6	8·1	11·2	12·5	14·3	13·4	12·1	16·1	**17·0**
Kew	**14·8**	10·8	12·8	10·2	9·2	8·2	9·5	9·5	12·1	12·5	13·4	10·5
South Kensington	**8·9**	7·2	**8·9**	7·6	6·3	6·7	7·2	7·2	7·6	**8·9**	**8·9**	8·1
6. Eskdalemuir	18·8	18·8	15·2	**23·3**	13·0	12·1	14·3	12·1	17·9	18·3	22·4	23·3
Glasgow	8·1	11·8	9·2	16·4	8·2	7·5	10·2	8·2	10·2	12·5	**17·0**	16·1
7. Fleetwood	17·4	17·9	20·7	23·3	20·3	16·1	14·8	17·0	18·7	14·4	21·6	18·7
Southport	16·5	17·9	21·0	**21·5**	16·5	16·1	~~16·5~~	18·3	16·5	13·4	20·6	**21·5**
Stonyhurst	9·4	10·5	10·8	**15·7**	9·8	9·8	7·2	7·9	9·2	9·2	13·1	12·8
Holyhead	16·1	18·8	17·4	19·3	12·8	11·1	14·4	16·7	14·8	16·4	**22·8**	20·0
Dwyran	16·5	20·1	19·2	17·0	12·5	15·2	16·1	13·4	13·9	16·1	**25·5**	21·0
8. Falmouth	12·1	12·5	17·4	10·5	9·2	10·8	12·5	11·8	9·8	12·5	15·7	**18·0**
Pendennis	21·5	23·7	28·6	21·9	14·8	19·7	19·2	19·2	20·1	22·8	29·5	**31·3**
Plymouth	14·8	16·5	17·9	10·7	10·7	16·5	14·3	17·0	14·8	18·8	20·1	**22·4**
9. Armagh	11·6	10·2	8·5	9·8	6·6	6·9	6·6	5·6	5·6	7·5	13·4	**16·4**
10. Dublin	9·8	13·0	9·6	11·3	7·5	7·1	8·3	7·9	7·5	14·6	15·4	**15·9**
Kingstown	15·2	18·7	17·0	**22·9**	12·8	14·1	12·5	18·0	18·0	19·0	21·0	**22·3**
Quilty	17·9	21·0	18·3	19·7	12·5	15·7	14·8	13·4	14·8	18·8	23·3	**27·7**
Roche's Point	20·1	20·6	17·9	16·5	10·7	16·5	14·8	14·8	17·9	21·0	21·0	**22·4**
Valencia	17·4	15·1	16·4	14·8	10·5	13·8	12·1	13·4	11·8	15·4	17·4	**23·7**
11. Scilly	19·7	22·4	28·0	18·4	15·0	16·3	15·0	23·4	15·4	20·9	22·9	**29·2**
Gibraltar	14·8	**20·6**	17·9	16·1	13·0	16·5	11·2	13·4	14·3	13·4	17·0	14·8
St. Helena	14·3	15·2	14·3	12·5	11·6	14·3	15·2	**18·3**	16·5	16·5	15·2	15·7

TABLE VII.—MILES per HOUR into Metres per Second. 1 Mile per Hour = 0·44704 Metres per Second.

Miles per Hour.	0	1	2	3	4	5	6	7	8	9
	Metres per Second.									
0	0·0	0·5	0·9	1·3	1·8	2·2	2·7	3·1	3·6	4·0
10	4·5	4·9	5·4	5·8	6·3	6·7	7·2	7·6	8·1	8·5
20	8·9	9·4	9·8	10·3	10·7	11·2	11·6	12·1	12·5	13·0
30	13·4	13·9	14·3	14·8	15·2	15·7	16·1	16·5	17·0	17·4
40	17·9	18·3	18·8	19·2	19·7	20·1	20·6	21·0	21·5	21·9
50	22·4	22·8	23·3	23·7	24·1	24·6	25·0	25·5	26·0	26·4
60	26·8	27·3	27·7	28·2	28·6	29·1	29·5	30·0	30·4	30·9
70	31·3	31·7	32·2	32·6	33·1	33·5	34·0	34·4	34·9	35·3
80	35·8	36·2	36·7	37·1	37·6	38·0	38·4	38·9	39·3	39·8
90	40·2	40·7	41·1	41·6	42·0	42·5	42·9	43·4	43·8	44·3
100	44·7	45·2	45·6	46·0	46·5	46·9	47·4	47·8	48·3	48·7
110	49·2	49·6	50·1	50·5	51·0	51·4	51·9	52·3	52·8	53·2
120	53·6	54·1	54·5	55·0	55·4	55·9	56·3	56·8	57·2	57·7
130	58·1	58·6	59·1	59·5	59·9	60·4	60·8	61·2	61·7	62·1
140	62·5	63·0	63·5	63·9	64·4	64·8	65·3	65·7	66·2	66·6